Digital Video Disc Recorder
Owner's Manual

DVDR80

Important! Return your Warranty Registration Card within 10 days. See why inside.

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Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

PHILIPS

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Dear PHILIPS product owner:

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As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction. All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

Sincerely,

Lawrence J. Blanford

Lawrence J. Blanford
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these **safety** *symbols*

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

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US patent Nr.: 5,940,073; 6,154,203; 6,239,794; 6,331,877; 4,908,713; 4,751,578; and 4,706,121.
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4 Safety Information

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.
Federal Communications Commission (FCC) Warning: Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

Laser Safety

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.
CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.10.
CAUTION: Visible and invisible laser radiation when open and interlock defeated. Do not stare into the beam. The beam is located inside, near the deck mechanism.

Special Information for Canadian Users

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.
CET APPAREIL NUMÉRIQUE N'ÉMET PAS DE BRUITS RADIOÉLECTRIQUES DÉPASSANT LES LIMITES APPLICABLES DANS LA RÈGLEMENT SUR LE BROUILLAGE RADIOÉLECTRIQUES ÉDICTÉ PAR LE MINISTÈRE DES COMMUNICATIONS DU CANADA.

Radio/TV Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, try to correct the interference by one or more of the following measures:

1) Reorient or relocate the receiving antenna.
2) Increase the separation between the equipment and the receiver.
3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4) Consult the dealer or an experienced radio/TV technician for help.

WARNING:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT:

This product was FCC verified under test conditions that included use of shielded cables and connectors between system components. Use shielded cables to reduce the possibility of causing interference to radios, televisions, and other electronic devices. If you have any problems, contact your supplier.

Copyright Protection

Unauthorized copying, broadcasting, public performance, and lending of Discs are prohibited. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Note to Cable TV Installer

This reminder is provided to call the Cable TV system installer's attention to Section 820-40 of the National Electrical Code (NEC), which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Declaration of Conformity

Model Number: DVDR80
Trade Name: Philips
Responsible Party: Philips Consumer Electronics
P.O. Box 14810, Knoxville, TN 37914-1810
(865) 521-4316

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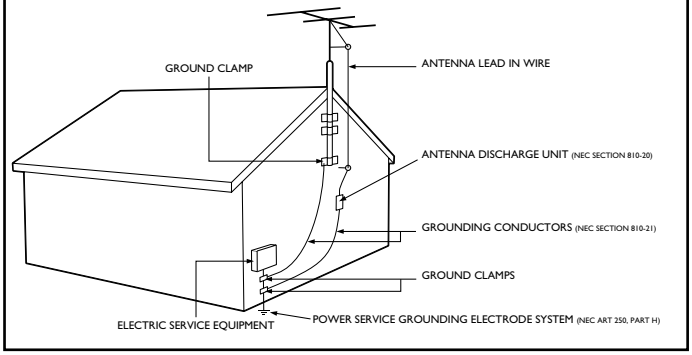
IMPORTANT SAFETY INSTRUCTIONS

1. Read instructions. Read all the safety and operating instructions before operating the product.
2. Retain instructions. Keep the safety and operating instructions for future reference.
3. Heed warnings. Adhere to all warnings on the product and in the operating instructions.
4. Follow instructions. Follow all operating and use instructions.
5. Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture – Do not use this product near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, near a swimming pool, etc.
8. Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.
9. Move a product and cart combination with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
10. Ventilation – Slots and openings in the cabinet provide ventilation, ensure reliable operation of the product, and protect it from overheating. Do not block or cover these openings. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. Do not place this product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. Grounding or Polarization – This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13. Power-Cord Protection – Route power supply cords so they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See figure at right.
15. Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
16. Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, take extreme care to keep it from touching such power lines or circuits; contact with them might be fatal.
17. Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles. This can result in a risk of fire or electric shock.
18. Object and Liquid Entry – Never push objects of any kind into this product through openings; they may touch dangerous voltage points or short out parts, resulting in a fire or electric shock. Never spill liquid of any kind on the product.
19. Servicing – Do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
20. Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a) When the power supply cord or plug is damaged,
    b) If liquid has spilled or objects have fallen into the product,
    c) If the product has been exposed to rain or water,
    d) If the product does not operate normally by following the operating instructions. Adjust only those controls covered by the operating instructions. An improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
    e) If the product has been dropped or damaged in any way,
    f) When the product exhibits a distinct change in performance. This indicates a need for service.
21. Replacement Parts – When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
22. Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
23. Wall or Ceiling Mounting – Mount the product to a wall or ceiling only as recommended by the manufacturer.
24. Heat - Situate this product away from heat sources, such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
25. Battery usage CAUTION - To prevent battery leakage that may result in bodily injury or damage to the unit:
    • Install all batteries correctly, with + and - aligned as marked on the unit.
    • Do not mix batteries (old/new, carbon/alkaline, etc.).
    • Remove batteries when the unit is not used for a long time.

Example of Antenna Grounding per National Electrical Code


GROUND CLAMP
ANTENNA LEAD IN WIRE
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
ELECTRIC SERVICE EQUIPMENT
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

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6 Introduction

Welcome!

Your Philips DVD Recorder both records DVD+RWs/DVD+Rs and plays prerecorded DVDs. You can record TV programs, edit camcorder recordings, and quickly access your recordings in the Index Picture Screen. You'll soon appreciate the digital picture and sound quality of DVD, DVD+RW, and DVD+R, which will exceed the quality you have had with videotapes.
Read this manual carefully to understand the latest features, then enjoy your new DVD Recorder.

Features

- Access Control
- Auto Resume
- Digital Video connection (DV IN CAM 2)
- Disc Manager
- DVD-Video Compatibility
- Editing
- Index Picture Screen
- Paused/Fast/Slow/Step-by-Step/Zoomed Play
- Progressive Scan compatibility
- The GUIDE Plus+® System
- Timer Recording
- VCR Plus+® Programming System with PlusCode

Package Contents

- DVD Recorder
- Remote control with two AA batteries
- AC power cord
- One blank Philips DVD+RW
- One RF coaxial cable (black with silver tip, with single prong in center of tip)
- One three-strand Component Video Cable (blue, green, and red markings)
- One two-strand audio cable (red and white markings)
- One composite video cable (yellow markings)
- This owner's manual and registration materials

Environmental Information

Your system has materials that can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries, and old equipment.

Safety Information

- Do not expose the system to excessive moisture, rain, sand, or heat sources.
- Place the Recorder on a firm, flat surface.
- Keep the Recorder away from domestic heating equipment and direct sunlight.
- When placing the Recorder in a cabinet, allow about one inch of space all around the Recorder for ventilation.

Acknowledgements

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http://www.freetype.org/freetype2

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This DVD Recorder will play various types of Discs. Some Disc types will only play on the Recorder; others will record in the Recorder; some will record and play. There are also a few types of Discs that will neither play nor record on this Recorder. Look for these logos on your Discs to determine whether the Disc will or will not play or record on the Philips DVD Recorder.

Discs for Recording and Playing

DVD+RW (Digital Video Disc + Rewritable): These Discs can be recorded on repeatedly. Recordings can be erased, then you can record again on the same Disc.

DVD+R (Digital Video Disc + Recordable): These Discs can be recorded only once. After you finalize a DVD+R, you cannot record on it any more.

Discs Unsuitable for Recording or Playing

DVD-RAM

DVD-Audio

Discs for Playing Only

DVD (Digital Video Disc)

DVD-R (DVD-Recordable)
You cannot record on these Discs using the Philips DVD Recorder.

DVD-RW (DVD-Rewritable)
You cannot record on these Discs using the Philips DVD Recorder. These Discs play only if recorded in video mode and if finalized.

Audio CD
(Compact Disc Digital Audio)

Dual-layer Super Audio CD
(plays only the CD layer, if present)

Video CD (VCD)
Similar to DVDs, these Discs hold less material. For example, a two-hour movie will fit on one DVD, but may take two VCDs.

Super Video CD (SVCD)

CD-R (CD-Recordable)
(plays only Audio CD contents)

CD-RW (CD-Rewritable)
(plays only Audio CD contents)

Region Codes and Color Systems

DVDs must meet the requirements for Region Codes and Color Systems before you can use them with the DVD Recorder. DVDs must be labelled for ALL regions or for Region 1 in order to play on this DVD Recorder. You cannot play Discs that are labeled for other regions. These symbols must appear on your DVDs, or you cannot play the DVD in this Recorder.
The number inside the globe refers to a region of the world. Region 1 represents the United States, Canada, upper regions of North America, Bermuda, the U.S. Virgin Islands, and small regions near Australia.

Furthermore, recordings are made according to different color systems throughout the world. The most common color systems are NTSC, which is used primarily in the United States and North America, PAL, and SECAM.
This Recorder is compatible with NTSC and PAL. Make sure the Discs you play were recorded in NTSC or PAL. The color system of the DVD may appear on the DVD or on the Disc case.
However, when playing a PAL Disc, the Recorder must be connected to a PAL-compatible TV using either the S-VIDEO (Y/C) or COMPONENT VIDEO (Y P_B P_R) OUT jacks of the Recorder. The Recorder's yellow VIDEO (CVBS) OUT jack does not send a clear PAL signal.

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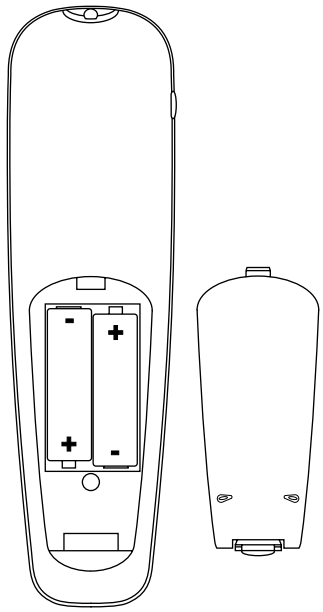
8 General Information

Battery Installation



1 **Remove the battery compartment lid** on the rear of the remote control by pressing in the tab and lifting the lid.

2 **Place two AA batteries inside the battery compartment with their + and – ends aligned as indicated.** Do not mix old and new batteries or different types of batteries (standard, alkaline, etc.).

3 **Replace the battery compartment lid.**

Using the Remote Control

Unless stated otherwise, the remote can operate all the features of the DVD Recorder. Always point the remote directly at the remote sensor on the front of the Recorder, not the TV. *See page 26.* Make sure there are no barriers between the remote and the Recorder.
The Recorder's remote will operate some features of some Philips TVs. *See page 24.*

DVD Disc Menus...

Some explanations in this manual describe the DVD Disc Menus, which vary among DVDs. Movie producers set these menus; not all DVDs have menus. If the DVD has a menu, access it by pressing DISC MENU on the remote. *See page 23.*

DVD Recorder Menus...

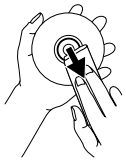
Some instructions explain how to use the Recorder's menu (or the System Menu or Menu Bars) to set up features of the Recorder or the Disc. You get to the Recorder Menu by pressing SYSTEM MENU on the remote. *See page 28.* Even if a feature is set up in the Recorder's menu, it will not be available if the current Disc does not include that feature.

Available Disc Features...

Features described in this manual may not be available on every Disc. If the feature is not available, you cannot use the Recorder to make the feature available. An "X" will appear in the top left corner of the TV screen if you try to access a feature that is not available on the current Disc. Or, some features may not be available at the current time. For example, some features are available only during play, while others can be accessed only if play is stopped. Try stopping or starting play, then try the feature again.

Cleaning Discs

- When a Disc becomes dirty, clean it with a cleaning cloth. Wipe the Disc from the center out, in a straight line. Do not wipe the Disc in a circular motion.



- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for analog discs.
- Always keep the Recorder's Disc tray closed to avoid dust on the lens.
- The lens may cloud over if you suddenly move the Recorder from cold to warm surroundings. Playing a Disc is not possible then. Leave the power on for about one hour with no Disc in the Recorder until normal play is possible.

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Determining the best possible connection...

The capabilities of your existing equipment, especially your TV, will determine your connection possibilities. However, the following guidelines describe which options provide the best picture and sound quality.

★★★★ Component Video provides the best picture quality. Progressive Scan Component Video has the ultimate quality, but use it only if the TV has Progressive Scan. *See page 12.*

★★★ S-Video provides excellent picture quality. *See page 13.*

★★ Composite Video (a yellow Video jack) provides good picture quality. *See page 14.*

★★ Your TV may have only an RF-style jack, usually labeled Antenna In or 75 ohm. You can use this connection style either with or without a Cable Box. *See pages 10-11.*

★★★★ Digital audio connections provide the clearest sound. Connect one of the DVD Recorder's DIGITAL AUDIO OUT jacks (COAX (coaxial) or OPTICAL) to your Stereo for the best sound quality. *See page 16.*

★★★ If digital audio connections are not possible, connect one pair of the DVD Recorder's red and white AUDIO OUT jacks to the Audio In jacks of your Stereo or TV. *See pages 12-15.*

Before you begin...

- Refer to the manuals of your TV, Stereo, or other equipment as necessary. Note the style of jacks and connectors on the other equipment. Determine how to choose different Audio and Video In channels on your other equipment so you can see and hear the DVD Recorder on the TV, Stereo, etc.
- Disconnect all equipment from the power outlets. Connect the equipment to the power outlets only after you have finished hooking up everything. Never make or change connections with equipment connected to the power outlet.

Remember...

- **Set the TV to the correct Video In channel.** This is channel 3 or 4 if your TV has only the single Antenna In jack. *See pages 10-11.* For all other connections, find the specific Video In channel at your TV.
  Video In channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or EXT2 or External In, etc. These channels often are near TV channel zero (0). Or, your TV remote may have a button or switch that lets you choose the Video In channel directly. See your TV manual for details.
  Or, go to your lowest TV channel and change channels down until you see the blue Philips DVD background picture on the TV screen. (The Recorder must be on.)
- Connect the DVD Recorder directly to the TV. For example, do not connect the Recorder to a VCR, then connect the VCR to a TV. This type of connection may distort the picture and sound. Also, your VCR might have the copy protection system, which could distort the DVD image.
- **To connect a VCR to the DVD Recorder so you can copy videotapes to a DVD+R or DVD+RW, *see page 17.***
- Set a Stereo to the correct Audio In channel or "source" mode.
- Do not connect the DVD Recorder's AUDIO OUT jacks to the PHONO IN jack of your Stereo.
- You only need one audio connection and one video connection between the DVD Recorder and your TV (or TV and Stereo). So, you will not use all the jacks on the Recorder. There are multiple jacks so you can connect to different TV styles or to other equipment. *See page 17.*
- If you plan to watch your TV with the DVD Recorder off, connect the supplied RF coaxial cable to the Recorder's TV jack and to the RF IN or ANTENNA IN jack (75 ohm) on your television. This lets you watch channels at the TV normally when the Recorder is off and will improve the reception at your TV.

Determine the connection that fits with your TV, then find your choice on pages 10-16. Follow the steps for the hookup you chose. When you finish your connections and turn on the DVD Recorder for the first time, complete the Initial Setup. This sets up TV channels, menu languages, and other features, including the GUIDE Plus+® System. See pages 18-20 to do the Initial Setup.

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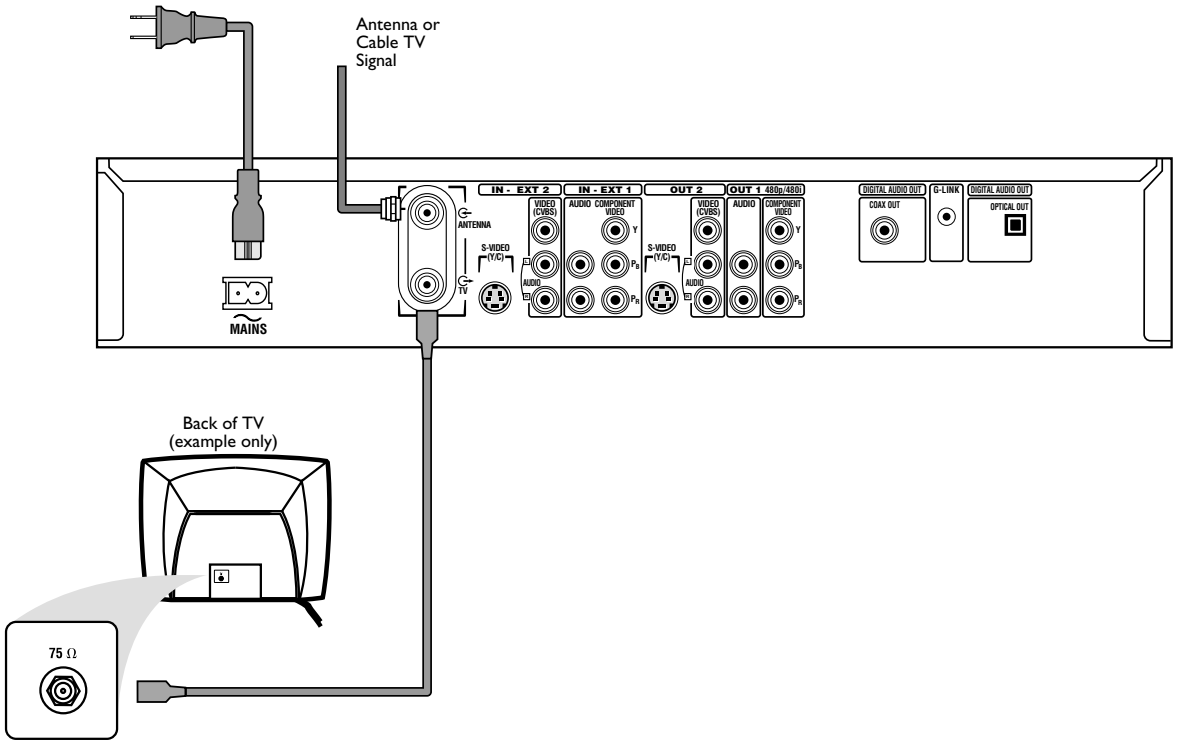
Connecting to a TV Only
TV has only an Antenna In jack



1 **Connect your Antenna or Cable TV signal to the ANTENNA jack on the rear of the Recorder.** Your antenna or Cable TV signal may have been connected to your TV already. If so, disconnect it from the TV and connect it to the Recorder's ANTENNA jack.

2 **Connect the supplied RF coaxial cable to the TV jack on the rear of the Recorder. Connect the other end of the same RF coaxial cable to the Antenna In jack on your TV.** Your TV's Antenna In jack may be labelled RF In, Antenna In, or 75 ohm. Check your TV's manual for details.

3 **Connect the supplied power cord to the MAINS ~ (AC Power) jack on the rear of the Recorder.**
Connect the power cords of the Recorder and the TV to a power outlet.

4 **Press STANDBY-ON ⏻ on the front of the Recorder to turn it on.** "IS TV ON? CH03" will appear on the Recorder's display panel the first time you turn on the Recorder.

5 **Turn on the TV. Set it to channel 3.** You should see the blue Philips DVD background picture or the Initial Setup screen. *Initial Setup appears the first time you turn on the Recorder. Go to pages 18-20 to complete the Initial Setup.*

Helpful Hints

- *The Recorder's display may show "IS TV ON? C04" instead. If so, put the TV on channel 4.*
- *If you need to use TV channel 4 but "IS TV ON? C03" appears on the display, press and hold the Number 4 button on the Recorder's remote. After several seconds, the display will change to "IS TV ON? C04." Set your TV to channel 4.*
  Likewise, if the display shows "IS TV ON? C04" and you need TV channel 3, press and hold the Number 3 button.
  Use this procedure while the Recorder is on and "IS TV ON?..." shows on the display.

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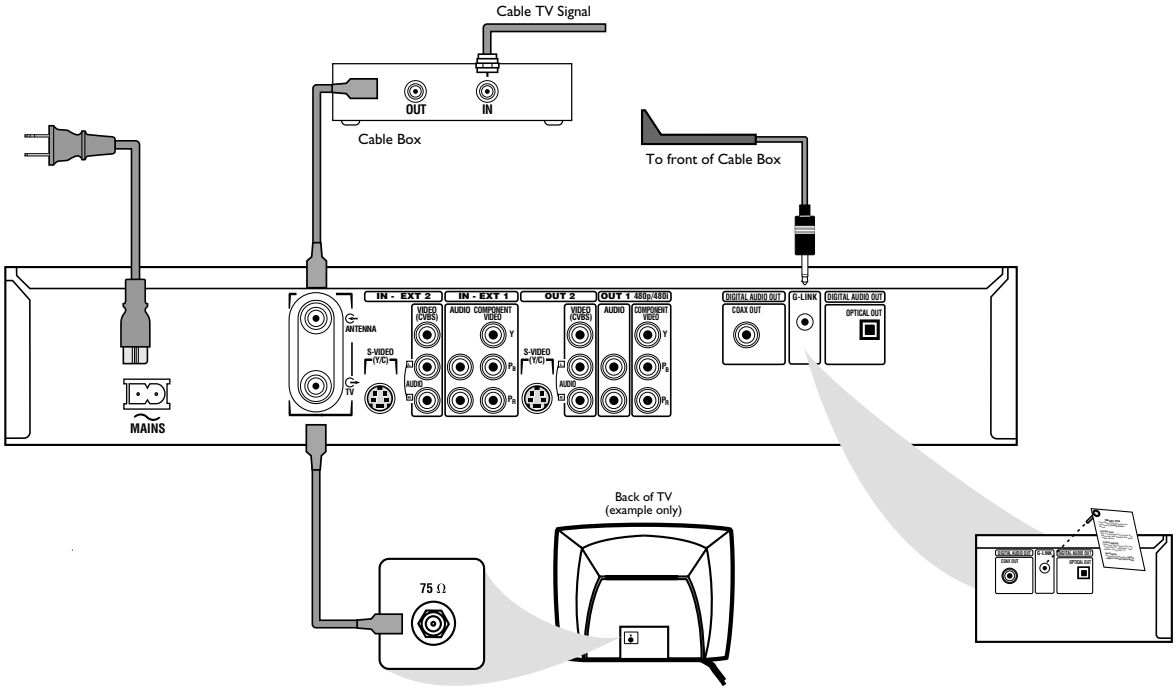
Connecting to a TV and a Cable Box or Satellite Receiver



This example shows a Cable Box, but the steps are the same for a Satellite Receiver. Do not use the G-Link cable if you have a Satellite Receiver.

1 **Connect your Cable TV signal to the ANTENNA IN jack on your Cable Box.**

2 **If your Cable Box has an ANTENNA OUT or TO TV jack, connect an RF coaxial cable to it and to the Recorder's ANTENNA jack.**
If your Cable Box has red, white, and yellow AUDIO and VIDEO OUT jacks, use the supplied audio and video cables to connect those jacks to the Recorder's IN EXT 2 VIDEO (CVBS) and AUDIO L/R jacks instead.

3 **Connect an RF coaxial cable to the Recorder's TV jack and to the ANTENNA IN or RF IN jack on your TV.** Your TV's Antenna In jack may be labelled RF In or 75 ohm. Check your TV manual for details.

4 **Connect the supplied power cord to the MAINS ~ (AC Power) jack on the rear of the Recorder. Connect the power cords of the Recorder, Cable Box/Satellite Receiver, and TV to a power outlet.**

5 If you have a Cable Box, **remove the Demo Pin from the Recorder's G-LINK jack.** (This should have been in place when you bought the Recorder.) **Connect the supplied G-Link cable to the G-LINK jack** now. You will need this later to use the GUIDE Plus+® System.

6 **Press STANDBY/ON ⏻ to turn on the Recorder. Set the Recorder to channel 3 or 4** (your Cable Box output channel) if you used an RF coaxial cable at step 2. Or, set the Recorder to EXT 2 if you connected the Cable Box to those jacks at step 2.

7 "IS TV ON? CH03" will appear on the Recorder's display panel the first time you turn it on. **Turn on the TV and the Cable Box. Set the TV to channel 3 to receive the picture from the Recorder.**
You should see the blue Philips DVD background picture or the Initial Setup screen. *Initial Setup appears the first time you turn on the Recorder. Go to pages 18-20 to complete the Initial Setup.*

Helpful Hints

- *To watch TV, put the Recorder in Monitor mode and on channel 3 or 4. (Press MONITOR on the Recorder's remote.) Change TV channels at your Cable Box.*
- *The Recorder's display may show "IS TV ON? C04" instead. If so, put the TV on channel 4.*
- *If you need to use TV channel 4 but "IS TV ON? C03" appears on the display, press and hold the Number 4 button on the Recorder's remote. After several seconds, the display will change to "IS TV ON? C04." Set your TV to channel 4.*
  Likewise, if the display shows "IS TV ON? C04" and you need TV channel 3, press and hold Number 3. Use this procedure while the Recorder is on and "IS TV ON?..." shows on the display.
- *You can use the connections between the Recorder and a TV/Stereo shown on pages 12-16 instead. You will choose a different Video In channel at the TV.*

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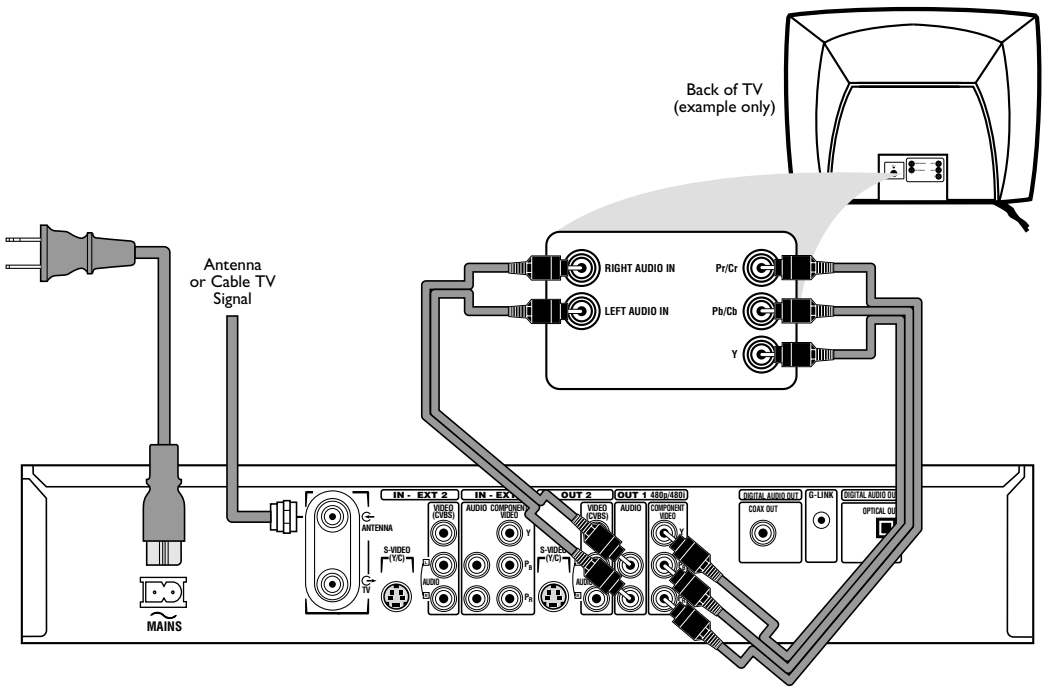
Connecting to a TV Only
TV has Component Video In Jacks



1 **Connect your Antenna or Cable TV signal to the ANTENNA jack on the rear of the Recorder.**

2 **Connect the Recorder's OUT 1 COMPONENT VIDEO Y PB PR jacks to the COMPONENT VIDEO IN jacks on the TV.** Use the supplied three-strand component video cable, which has red, blue, and green markings. Match the cable colors to the jack colors.

3 **Connect the Recorder's OUT 1 AUDIO L/R (left/right) jacks to the left/right AUDIO IN jacks on the TV.** Use the supplied two-strand audio cable, which has red and white markings. Match the cable colors to the jack colors.

4 **Connect the supplied power cord to the MAINS ~ (AC Power) jack on the rear of the Recorder.**
Connect the power cords of the Recorder and the TV to a power outlet.

5 **Press STANDBY-ON ⏻ on the front of the Recorder to turn it on.** "IS TV ON? CH03" will appear on the Recorder's display panel the first time you turn on the Recorder.

6 **Turn on the TV. Set it to the Component Video In channel,** not channel 3 or 4. (See your TV manual for details. Or, go to your lowest TV channel and change channels down until you see the DVD background picture or Initial Setup screens.) *Initial Setup will appear the first time you turn on the Recorder. Go to pages 18-20 to complete Initial Setup.*

Helpful Hints

- *If your TV has Progressive Scan (Pro Scan), connect the Recorder's OUT 1 COMPONENT VIDEO Y PB PR jacks to the TV's Progressive Scan In jacks instead. Pro Scan doubles the number of visible picture lines per field, providing a jitter-free, sharp, quiet picture. See your TV manual for details. If you use Pro Scan, set the Recorder's Video Output to Progressive Scan. See page 58.*
- *On the TV, the Component Video In jacks may be labeled YUV or Pr/Cr Pb/Cb Y and may be green, blue, and red.*
- *To watch TV with the Recorder off, connect the RF coaxial cable to the Recorder's TV jack and to the RF IN or ANTENNA IN jack (75 ohm) on your TV. This lets you watch channels at the TV when the Recorder is off and will improve TV reception. See page 10 for this hookup.*

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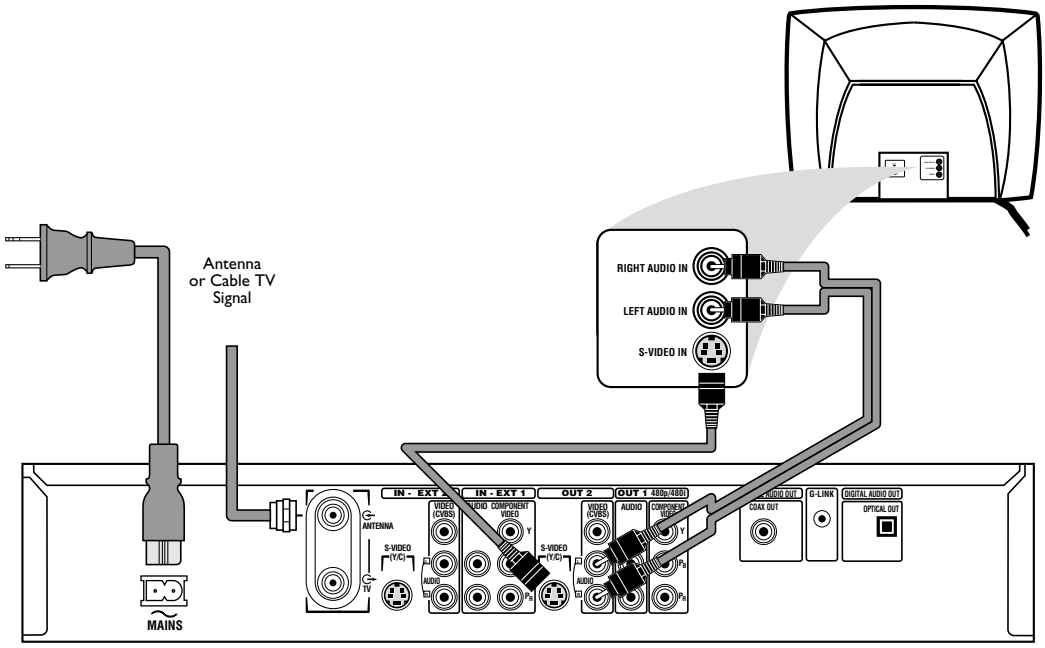
Connecting to a TV Only
TV has an S-Video In Jack



1 **Connect your Antenna or Cable TV signal to the ANTENNA jack on the rear of the Recorder.**

2 **Connect an S-Video cable (not supplied) to the OUT 2 S-VIDEO (Y/C) jack of the Recorder and to the TV's S-VIDEO In jack.**

3 **Connect the supplied audio cable to the Recorder's OUT 2 AUDIO L/R (left/right) jacks and to the left/right AUDIO IN jacks on the TV.** Audio cables have red and white markings. Match cable colors to jack colors.

4 **Connect the supplied power cord to the MAINS ~ (AC Power) jack on the rear of the Recorder.**
Connect the power cords of the Recorder and the TV to a power outlet.

5 **Press STANDBY-ON ⏻ on the front of the Recorder to turn it on.** "IS TV ON? CH03" will appear on the Recorder's display panel the first time you turn it on.

6 **Turn on the TV. Set it to the S-Video In channel,** not channel 3 or 4. (See your TV manual for details. Or, go to your lowest TV channel and change channels down until you see the DVD background picture or Initial Setup screens.) *Initial Setup will appear the first time you turn on the Recorder. Go to pages 18-20 to complete Initial Setup.*

Helpful Hints

- *On the TV, the S-Video In jack may be labeled Y/C, S-Video, or S-VHS (super video).*
- *To watch TV with the Recorder off, connect the RF coaxial cable to the Recorder's TV jack and to the RF IN or ANTENNA IN jack (75 ohm) on your TV. This lets you watch channels at the TV when the Recorder is off and will improve TV reception. See page 10 for this hookup.*

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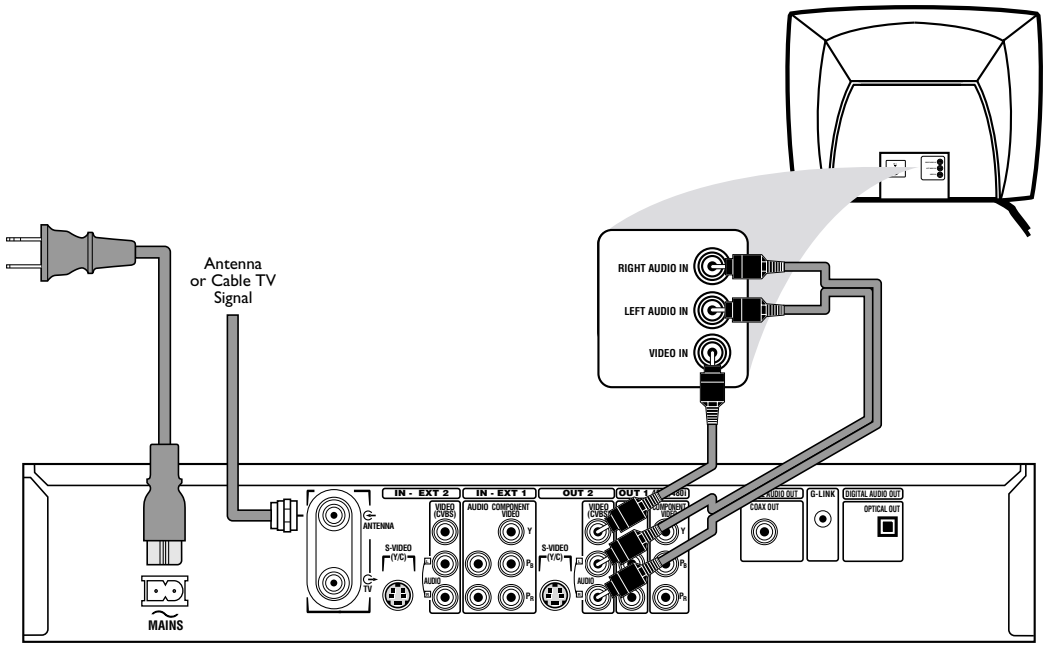
Connecting to a TV Only
TV has a yellow CVBS Video In jack



1 **Connect your Antenna or Cable TV signal to the ANTENNA jack on the rear of the Recorder.**

2 **Connect the Recorder's yellow OUT 2 VIDEO (CVBS) jack to the VIDEO IN jack on your TV.** The supplied video cable has yellow markings.

3 **Connect the supplied audio cables to the Recorder's OUT 2 AUDIO L/R (left/right) jacks and to the left/right AUDIO IN jacks on the TV.** Audio cables have red and white markings. Match cable colors to jack colors.

4 **Connect the supplied power cord to the MAINS ~ (AC Power) jack on the rear of the Recorder. Connect the power cords of the Recorder and the TV to a power outlet.**

5 **Press STANDBY-ON ⏻ on the front of the Recorder to turn it on.** "IS TV ON? CH03" will appear on the Recorder's display panel the first time you turn on the Recorder.

6 **Turn on the TV. Set the TV to its Audio/Video In channel.** It may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or EXT2 or External In, etc. Or, your TV remote may have a button or switch that selects the Video In channel. This is not channel 3 or 4. See your TV manual for details. Or, go to your lowest TV channel and change channels down until you see the DVD background picture or Initial Setup.
Initial Setup will appear the first time you turn on the Recorder. Go to pages 18-20 to complete Initial Setup.

Helpful Hints

- *On the TV, the Video In jack is usually yellow and might be labeled video, CVBS, composite, or baseband.*
- *To watch TV with the Recorder off, connect the RF coaxial cable to the Recorder's TV jack and to the RF IN or ANTENNA IN jack (75 ohm) on your TV. This lets you watch channels at the TV when the Recorder is off and will improve TV reception. See page 10 for this hookup.*

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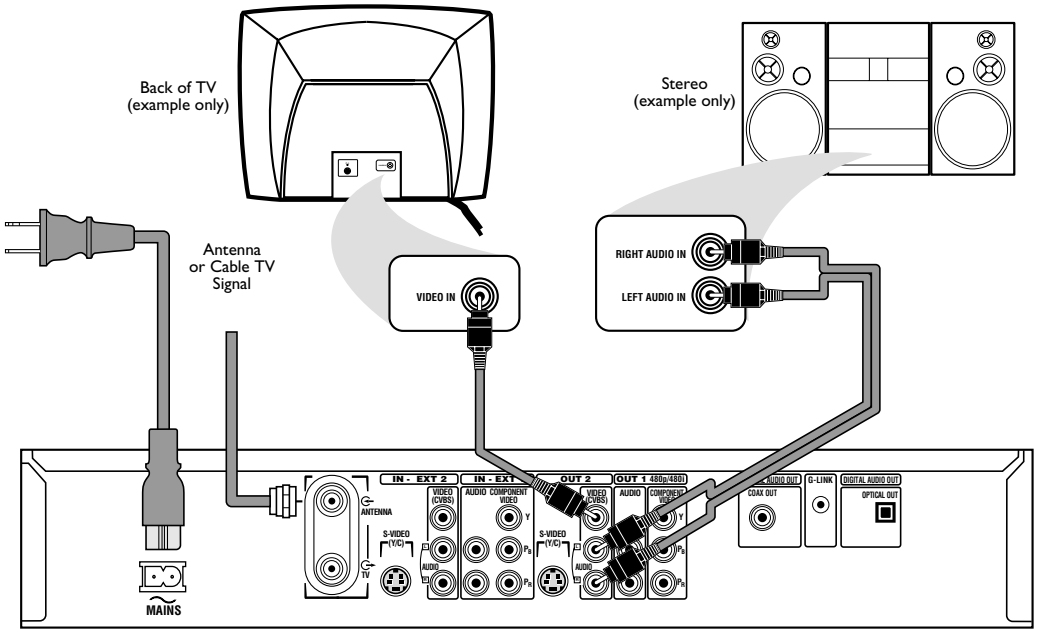
Connecting to a TV and a Stereo with red/white Audio In jacks)



1 **Connect your Antenna or Cable TV signal to the ANTENNA jack on the rear of the Recorder.**

2 **Connect the Recorder's yellow OUT 2 VIDEO (CVBS) jack to the VIDEO IN jack on your TV.** The supplied video cable has yellow markings.

3 **Connect audio cables to the Recorder's OUT 2 AUDIO L/R (left/right) jacks and to the left/right AUDIO IN jacks on the Stereo.** Audio cables have red and white markings. Match cable colors to jack colors.

4 **Connect the supplied power cord to the MAINS ~ (AC Power) jack on the rear of the Recorder. Connect the power cords of the Recorder, Stereo, and TV to a power outlet.**

5 **Turn on the Stereo and select the correct Audio In channel or sound source.** Refer to the Stereo manual.

6 **Press STANDBY-ON ⏻ on the front of the Recorder to turn it on.** "IS TV ON? CH03" will appear on its display the first time you turn it on.

7 **Turn on the TV and select its Audio/Video In channel.** It may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or EXT2 or External In, etc. Or, your TV remote may have a button or switch that selects the Video In channel. This is not channel 3 or 4. See your TV manual for details. Or, go to your lowest TV channel and change channels down until you see the DVD background picture or Initial Setup.
Initial Setup will appear the first time you turn on the Recorder. Go to pages 18-20 to complete Initial Setup.

Helpful Hints

- *Set Analog output. See page 59.*
- *You may use Component Video or S-Video at step 2 instead for higher picture quality. See pages 12-13.*
- *To watch TV with the Recorder off, connect the RF coaxial cable to the Recorder's TV jack and to the RF IN or ANTENNA IN jack (75 ohm) on your TV. This lets you watch channels at the TV when the Recorder is off and will improve TV reception. See page 10 for this hookup.*

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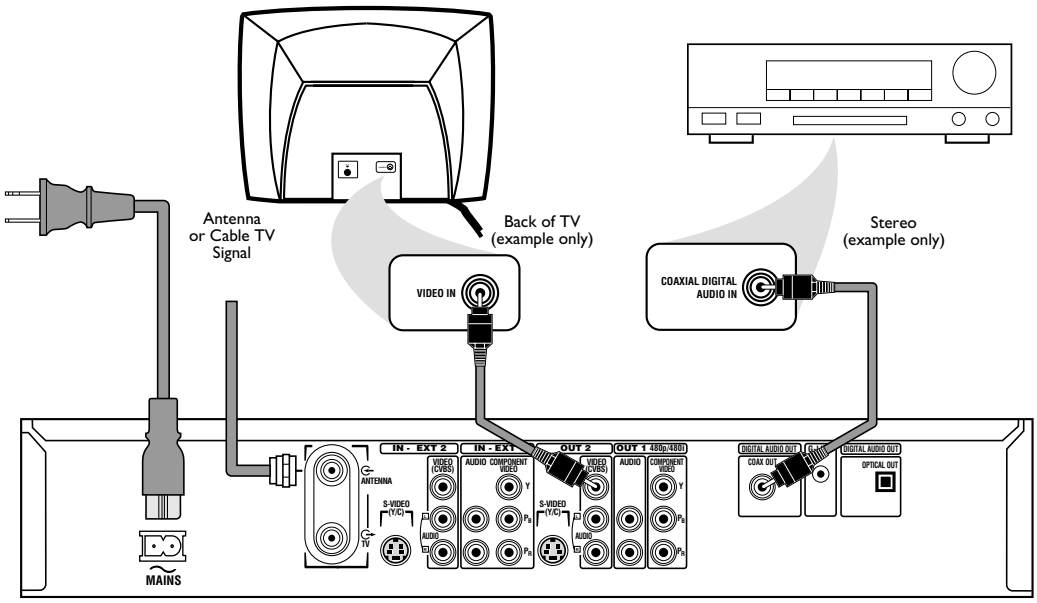
Connecting to a TV and a Digital Stereo (Stereo has Dolby Digital™, MPEG2, or Digital Theater System)



1 **Connect your Antenna or Cable TV signal to the ANTENNA jack on the rear of the Recorder.**

2 **Connect <u>one</u> of the Recorder's DIGITAL AUDIO OUT jacks - COAX (coaxial) OUT or OPTICAL OUT - to a DIGITAL AUDIO IN jack on your Stereo.** You only need one connection, depending on what your Stereo has. Use an appropriate digital audio cable (not supplied).

3 **Connect the Recorder's yellow OUT 2 VIDEO (CVBS) jack to the VIDEO IN jack on your TV.** The supplied video cable has yellow markings.

4 **Connect the supplied power cord to the MAINS ~ (AC Power) jack on the rear of the Recorder. Connect the power cords of the Recorder, Stereo, and TV to a power outlet.**

5 **Turn on the Stereo and select its Digital Audio In channel or sound source.** Refer to the Stereo manual.

6 **Press STANDBY-ON ⏻ on the front of the Recorder to turn it on.** "IS TV ON? CH03" will appear on the Recorder's display panel the first time you turn on the Recorder.

7 **Turn on the TV and choose its Video In channel.** It may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or EXT2 or External In, etc. Or, your TV remote may have a button or switch that selects the Video In channel. This is not channel 3 or 4. See your TV manual for details. Or, go to your lowest TV channel and change channels down until you see the DVD background picture or Initial Setup.
Initial Setup will appear the first time you turn on the Recorder. Go to pages 18-20 to complete Initial Setup.

Helpful Hints

- *Set Digital output. See page 59. Otherwise the Stereo may produce a strong, distorted sound or no sound at all.*
- *Your Stereo must support MPEG2, Dolby Digital™ or Digital Theater System (DTS). Check your Stereo manual.*
- *You may use Component Video or S-Video at step 3 instead for higher picture quality. See pages 12-13.*
- *A small, square, black cap protects the OPTICAL OUT jack. Remove the cap to use the jack; replace it when the jack is not in use.*
- *To watch TV with the Recorder off, connect the RF coaxial cable to the Recorder's TV jack and to the RF IN or ANTENNA IN jack (75 ohm) on your TV. This lets you watch channels at the TV when the Recorder is off and will improve TV reception. See page 10 for this hookup.*

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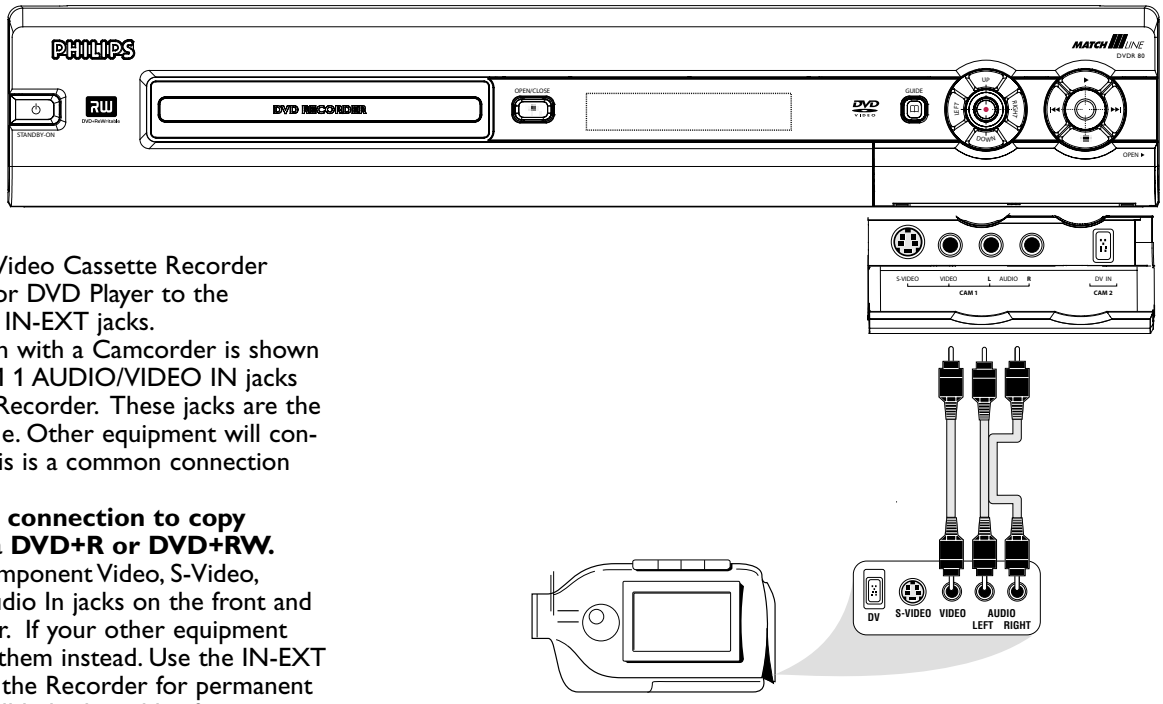
Connecting to Other Equipment
Dubbing Videotape to a DVD+R/DVD+RW



You can connect a Video Cassette Recorder (VCR), Camcorder, or DVD Player to the Recorder's CAM or IN-EXT jacks.
A sample connection with a Camcorder is shown here, using the CAM 1 AUDIO/VIDEO IN jacks on the front of the Recorder. These jacks are the most easily accessible. Other equipment will connect similarly, but this is a common connection possibility.
You will need this connection to copy videotapes onto a DVD+R or DVD+RW.
There are more Component Video, S-Video, Digital Video, and Audio In jacks on the front and rear of the Recorder. If your other equipment has these jacks, use them instead. Use the IN-EXT jacks on the rear of the Recorder for permanent connections. That will hide the cables from view.

1 **Connect the DVD Recorder directly to your TV.** Choose a connection from pages 10-16.

2 **To access the jacks on the front of the Recorder, flip down the door that covers the jacks.** Press where the door is marked OPEN ▶.

3 **Connect a video cable to the VIDEO OUT jack of your Camcorder and to the yellow CAM 1 VIDEO IN jack on the front of the DVD Recorder.** Use an RCA-style video cable, which is usually marked with yellow. (One video cable is supplied with the Recorder.)

4 **Connect audio cables to the AUDIO OUT jacks of your Camcorder and to the red and white CAM 1 AUDIO IN jacks on the front of the DVD Recorder.** Most audio cables are marked with red and white. Match the cable colors to the jack colors. (One pair of audio cables is supplied with the DVD Recorder.)

5 **When all connections are complete, connect all the equipment to power. Turn on all the equipment.** Press STANDBY-ON ⏻ on the front of the DVD Recorder to turn it on.

6 **Set your TV to the correct Video In channel.** This will be channel 3 or 4 or a specific Video In channel, depending on your connection between the Recorder and the TV. Refer to the connection details on pages 9-16. Or, simply go to channel 5 on your TV, then change channels down until you see the DVD Recorder's logo. *Initial Setup will appear the first time you turn on the Recorder. See pages 18-20 to do Initial Setup first.*

7 To watch or record the material playing on the other equipment, **press MONITOR to put the Recorder in Monitor mode. Press CH+▲ or CH-▼ to select CAM1 at the Recorder.** This is located after your highest TV channel and before your lowest TV channel. Choose CAM1 if you used the connection shown on this page (with the jacks on the front of the Recorder). If you use the IN EXT 1 or IN EXT 2 jacks on the rear of the Recorder instead, choose channel EXT 1 or EXT 2. Choose the channel that matches the jacks to which you connected the other equipment. **Start playing the material by pressing PLAY on the other equipment. Press Record ● on the front of the DVD Recorder to start recording.** *See page 21.*

Helpful Hints

- *Use the DV IN CAM 2 jack to connect the Recorder to a Personal Computer that has a Digital Video output. The PC must have an IEEE 1394 Firewire connector. Limited PC applications may be supported. You also can use this jack to connect the Recorder to Digital Video or Hi-8 camcorders. If you use the DV IN CAM 2 jack, choose CAM 2 at the Recorder in Monitor mode to see the material playing on other equipment.*
- *Most prerecorded videotapes and DVDs are copy protected. If you try to copy them, the Recorder display may show "COPY PROTECT."*
- *If the Recorder's display shows "NO SIGNAL," adjust the tracking or play the tape at the VCR/Camcorder.*
- *Do not connect a Progressive Scan video source (such as a DVD Player) to the IN EXT 1 COMPONENT VIDEO jacks. The Recorder cannot receive Progressive Scan video.*

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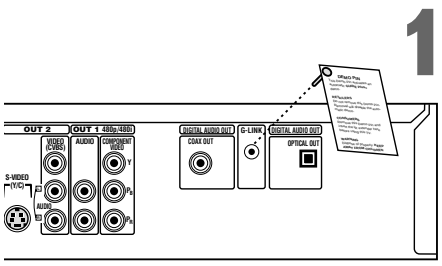
18 Initial Setup

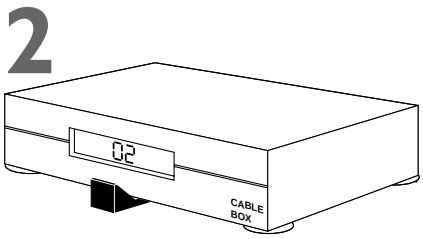
Initial Setup menus will appear on the TV the first time you turn on the Recorder. These help you set up TV channels, the GUIDE Plus+® System, and other features for the first time.

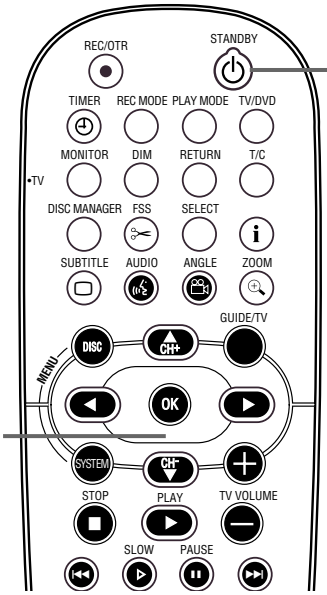
During Initial Setup, "IS TV ON?" will appear on the Recorder's display panel. Turn on your TV and set it to channel 3 or 4 OR the correct Video In channel. Your TV must be on the correct Video In channel to see the Initial Setup menus. See pages 9-17 to find the Video In channel for your hookup. Or, check your TV manual for details.

You cannot open the Disc tray while "IS TV ON?" appears. "INSTALL RECORDER FIRST" will show on the display panel.

You cannot turn off the Recorder until you finish the Initial Setup. The only way to quit the Initial Setup is to disconnect the power cord. If you quit, the Initial Setup screens will appear again the next time you turn on the Recorder. The screens will not go away until you finish the Initial Setup.





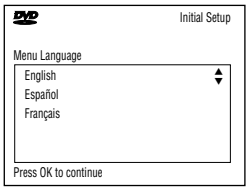


1 **Remove the Demo Pin from the G-LINK jack on the rear of the Recorder.** Otherwise, a GUIDE Plus+® System demonstration will run after you finish Initial Setup.

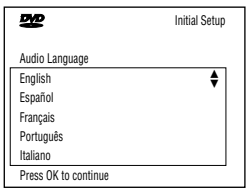
2 **If you are using a Cable Box, connect the G-Link cable to the Recorder's G-LINK jack.** *See page 11.* **Place the G-Link sensor in front of your Cable Box.** Turn on the Cable Box and set it to channel 2.

3 **Press STANDBY ⏻ to turn on the Recorder.** PHILIPS will show on the display panel. It will take the Recorder several seconds to turn on.

4 The Menu Language screen will appear first. **Press ▲CH+ or ▼CH- to choose English, Espanol, or Francais. Press OK.** The Recorder's menus will be in the language you selected.
To change the Menu Language later, see page 60.



5 The Audio Language menu appears next. **Press ▲CH+ or ▼CH- to choose the language you prefer, then press OK**.
To change the Audio Language later, see pages 48 and 60.



Helpful Hints

- *The Recorder's features will scroll across the display panel when you first connect the power cord. This is a demonstration that cannot be cancelled.*
- *The Initial Setup screens will disappear after about 20 minutes of inactivity. The Recorder will turn off. The Initial Setup menus will reappear when you turn on the Recorder again.*
- *If the Initial Setup menus don't appear, your Recorder is set already. To change items later, see the pages for each feature.*
- *You can use channel 3 or 4 at your TV. While "IS TV ON? C04" is on the Recorder's display, press and hold the remote's Number 3 button until the display shows "IS TV ON? C03." Set your TV to channel 3. To change to channel 4, press and hold Number 4 instead during this process.*

Instructions continue on the next page.

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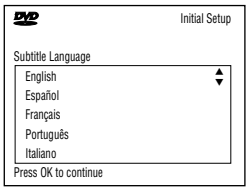
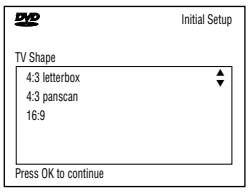
6 The Subtitle Language menu appears next. **Press ▲CH+ or ▼CH- to choose a language for subtitles, then press OK.**
To change the Subtitle Language later, see pages 48 and 60.

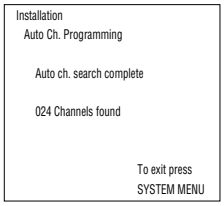


7 The TV Shape menu appears next. **Press ▲CH+ or ▼CH- to choose the preferred TV Shape, then press OK.**
To change the TV Shape later or for details on TV Shapes, see page 58.



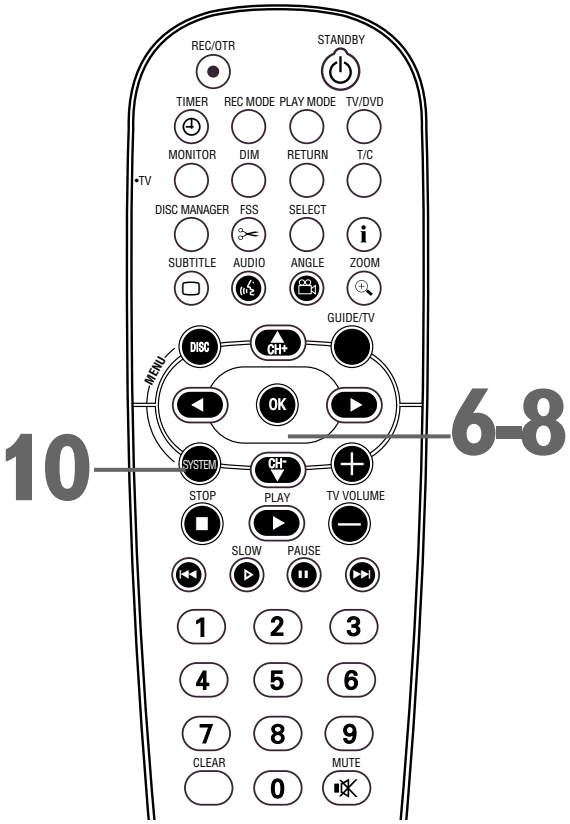
8 "If you have connected the antenna - press OK" appears next. **If you have connected an Antenna or Cable TV signal to the Recorder's ANTENNA jack, press OK.**
If you have not connected the Antenna or Cable TV signal, do so now, then press OK.

9 **"Searching for TV channels" will appear,** along with a scale showing channels are being memorized. The number of channels found will show on the screen as the searching progresses. This will take a few minutes, depending on the channels available in your area. When the channel search finishes, "Auto ch. search complete" will appear, along with the total number of channels found.



10 **Press SYSTEM MENU.**

You have completed the basic Initial Setup. Now you are ready to set up the GUIDE Plus+® System. Continue with the GUIDE Plus+® System setup as detailed on the next page.



Instructions continue on the next page.

Helpful Hint

- *DVDs will play with the Audio and Subtitles you selected only if those languages are on the Disc. Some DVDs require you to choose these options in the Disc menu. If so, the DVD defaults may override your choices in the Recorder's menus.*

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GUIDE Plus+® System Setup

1 **An introduction to the GUIDE Plus+® System will appear.** Read this, then **press OK** to continue through these introductory menus. The remaining menus help you set up the GUIDE Plus+® System, which provides free TV programming information through the Recorder. *See pages 43-47.*

2 First you will be asked about your country, zip code, Cable TV service, and Cable Box availability. **Use ▲CH+ and ▼CH- to choose an answer, then press OK.** Use the Number buttons to enter the zip code. Follow the instructions on the TV screen.

3 **If you do not have Cable TV or a Cable Box, skip to step 8. Otherwise, you will set up your Cable Box next.**
When asked to enter your Cable Box output channel: If you used an RF coaxial cable to connect the Cable Box to the Recorder, **choose channel 2, 3, or 4.** (Choose the output channel of your Cable Box. This may be indicated by a manual switch on your Cable Box.)
Or, if you used Audio and Video cables, **choose EXT2, EXT 1, CAM 1, or CAM 2.** Choose the channel that matches the jacks on the Recorder to which you connected the Cable Box.

4 Directions for connecting the G-Link cable will appear next. **If you have not connected the G-Link cable to the G-LINK jack on the rear of the Recorder, do so now. Press OK** when the cable is connected and you are ready to continue. *See pages 11 and 18.*

5 A list of Cable Box brands will appear. **Select your Cable Box brand, then press OK.** If your brand is not listed, select "Not Listed."

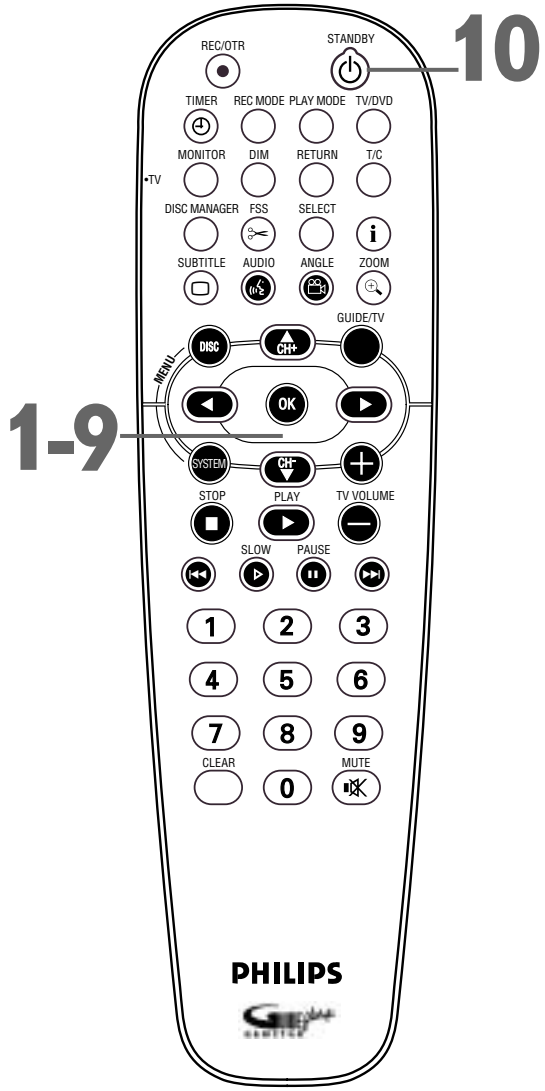
6 You will be advised to **turn on the Cable Box and set it to channel 2.** After doing this, **press OK to continue.**

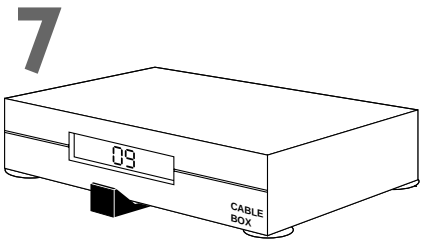
7 The Recorder will test codes that allow the G-Link cable to change the Cable Box to channel 9.
A message will ask you to confirm whether the Cable Box has changed to channel 9. If it does, select Yes. Press OK.
If the Cable Box does not change to channel 9, check all connections. Select "Test this code again," then press OK.
Or, choose No and press OK. The Recorder will try a different code. Repeat this process until the Cable Box changes to channel 9.

8 "Confirming your settings" will appear. **When the information is correct, choose "Yes, end setup," then press OK**.
If the settings are incorrect, choose "No, repeat setup process," then press OK. You will go through the setup again. Change any incorrect information.

9 Helpful information about the GUIDE Plus+® System will appear. **Press OK to continue.**
A congratulations message will appear, prompting you to select "Watch TV." **Press OK again. You are finished!**
Within a few seconds, the DVD Recorder will turn itself off, then on again. When the Recorder turns on again, the GUIDE Plus+® System will show "no data." This is normal, as the Recorder has not had time to receive programming data. To use the Recorder right away, press GUIDE/TV to remove the GUIDE Plus+® System.

10 **Press STANDBY ⏻ to turn off the Recorder later. The GUIDE Plus+® System data will be available in about 24 hours.** When the Recorder is off, channels will change on your Cable Box. This is normal, as the unit is searching for GUIDE Plus+® System information. For best results, turn off the Recorder overnight so it can receive the GUIDE Plus+® System data.
Leave the Cable Box turned on.





Helpful Hints

- ***By default, the GUIDE Plus+® System will appear first every time you turn on the Recorder. To cancel this feature, turn off the Auto Display under Review Options in the GUIDE Plus+® System. See page 44.***
- The Recorder must be off in order to receive GUIDE Plus+® System data.

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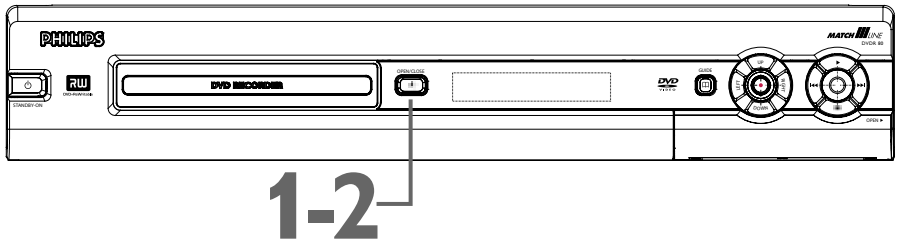
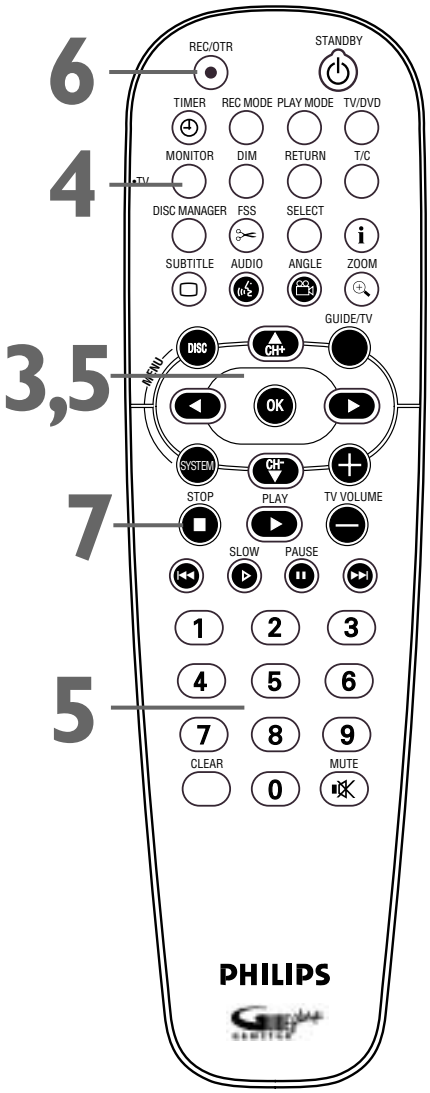
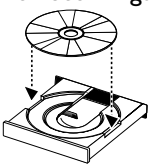




The Recorder can record TV programming onto a DVD+RW or DVD+R. Make sure TV channels are set. Use an unprotected, unfinalized, recordable DVD+RW or DVD+R.

1 **Press OPEN/CLOSE ⏏** on the front of the Recorder to open the disc tray. (Or, press and hold STOP ■ on the remote control for about three seconds to open or close the Disc tray.)

2 **Insert a recordable DVD+RW or DVD+R,** with the label facing up. **Press OPEN/CLOSE ⏏** to close the disc tray. The Index Picture Screen will appear. *See page 31.* If the Disc is empty and has no recordings, "EMPTY DISC" will appear on the display panel.



3 **Press ▼CH- to select an empty Title box on a DVD+RW.** To avoid overwriting other recordings, choose the last Empty Title box. On a DVD+R, the Recorder always records at the end of the Disc; you do not need to select an Empty Title box. You can not overwrite DVD+R recordings.

4 **Press MONITOR** to see TV channels through the Recorder.

5 **Press ▼CH-, ▲CH+, or the Number buttons** to select the channel you wish to record.
To record material playing on equipment you connected to the Recorder, select EXT1, EXT2, CAM1, or CAM2. Choose the EXT (External) or CAM (Camera) channel that matches the jack to which you connected the other equipment. For example, if you connected a camcorder to the S-VIDEO CAM1 jack on the front of the Recorder, press **▼CH- or ▲CH+** to choose CAM1. CAM1 will appear in the Tuner Information Box. *See page 30.*
If you are using a Cable Box/Satellite Receiver, set the Recorder to channel 3 or 4. (Choose the output channel of your Cable Box/Satellite Receiver.) Change TV channels at the Cable Box/Satellite Receiver.

6 **Press REC/OTR ●** to record the channel. Red record lights will encircle the disc tray and the Record ● button on the front of the Recorder. Recording will begin after a few seconds. (The Disc has to prepare for recording.) To pause recording, press PAUSE ❚❚ once on the remote. The red light encircling the Record ● button will flash. To resume recording, press PAUSE ❚❚ or REC/OTR ●.

7 **Press STOP ■** to stop recording. The Index Picture Screen will reappear after a few seconds. On a brief recording on a new DVD+RW, formatting the Disc will take a minute.

- *To play a DVD+R on another DVD Player, finalize the Disc. Follow the steps on page 40. You cannot record or edit a DVD+R after you finalize it.*
- *To edit your recordings, see pages 35 and 38-39. However, editing changes may not be accessible when you play the Disc on other DVD Players.*

Helpful Hints

- *You can not record only Audio (sound) to a DVD+RW/DVD+R. You must record both audio and video (sound and picture).*
- *To erase a recording, see "Erase this title" details on page 35.*
- *You cannot duplicate copyrighted DVDs, videotapes, or TV broadcasts using this Recorder. "COPY PROTECT" will appear on the display panel.*

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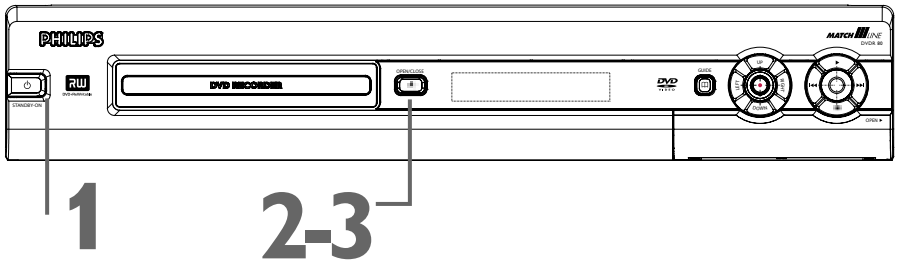
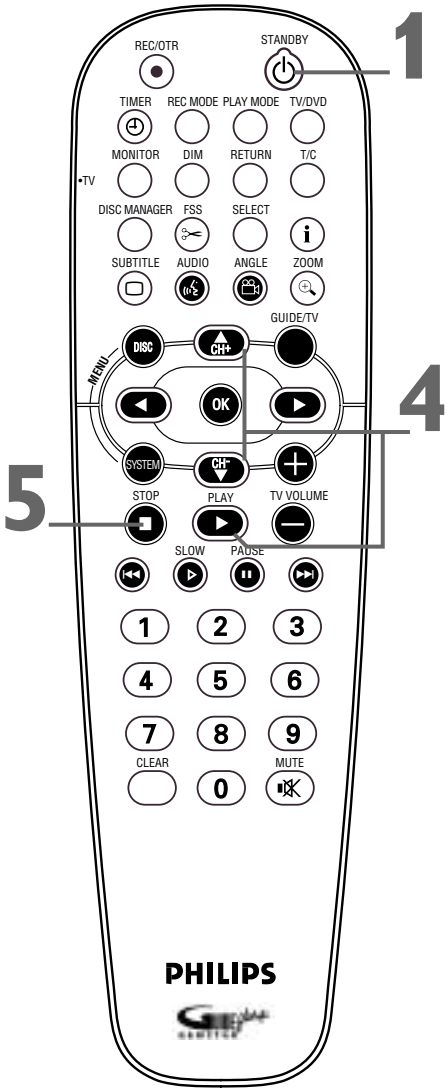
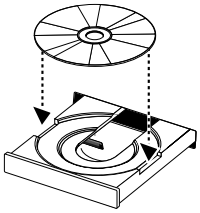
22 Quick Disc Play





1 **Press STANDBY-ON ⏻ to turn on the DVD Recorder. Turn on your TV. Set it to the correct Video In channel.** *See pages 9-17.* You should see the blue Philips DVD background picture on the TV screen (if no Disc is in the Recorder).

2 **Press OPEN/CLOSE ⏏** on the front of the Recorder to open the disc tray. **Load your Disc in the tray**, with the label facing up and the shiny side facing down. If the Disc (DVD) is two-sided, make sure the label of the side you want to play is facing up.



3 **Press OPEN/CLOSE ⏏ again to close the tray.**

4 **Play may start automatically. If not:**
• For a DVD, a Disc menu may appear. **Press ▼CH-, ▲CH+, ◄, or ► to select an item, then press OK.** Continue until you set up all the features you want or until the Disc starts playing. Follow the instructions in the DVD Disc menu. If Titles, Chapters, or features are numbered in the menu, use the Number buttons on the remote to choose an item.
• For an Audio CD, **press PLAY ►** to start play.
• With a DVD+RW or DVD+R, an Index Picture Screen will appear. *See page 30.* **Press ▼CH- or ▲CH+ to select a Title; press PLAY ►.** If the Disc is blank, the display panel will show "EMPTY DISC."

5 **To stop play at any time, press STOP ■.**
If Auto resume is On, play will resume at the same point the next time you play the Disc. To play the Disc from its beginning, restart play from the Disc menu.
If Auto resume is Off, Resume ► will appear in the top left corner when you start to play the Disc later. While Resume ► appears, press PLAY ► to resume play from the point at which you last stopped it. Otherwise, play will start at the beginning of the Disc. Auto resume is On when you purchase the Recorder. However, you can turn it On or Off. *See page 62.*

Helpful Hints

- *If the Disc is Locked by Access Control, you must enter the four-digit code or authorize the Disc. See pages 54-56.*
- *DVDs have a region code. Your Recorder will not play Discs that have a region code different from the region code of your Recorder. The Recorder's region code is 1 (one). See page seven.*

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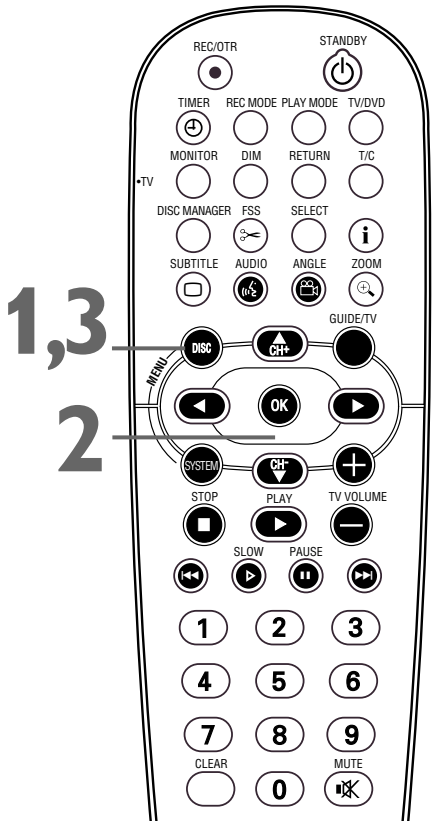
Title/Disc menus

1 **Press DISC MENU during Disc play.**
For a DVD, if the current Title has a menu, the Title menu will appear on the screen. Otherwise, the Disc menu will appear. The menu may list languages, Chapters, or other features.
For a DVD+RW or DVD+R, the Index Picture Screen will appear.
See page 31.

2 **Press ▲CH+, ▼CH-, ◄, or ► to select items in the menu or Index Picture Screen, then press OK.** Repeat this process until you set up all the features you want or until play begins.

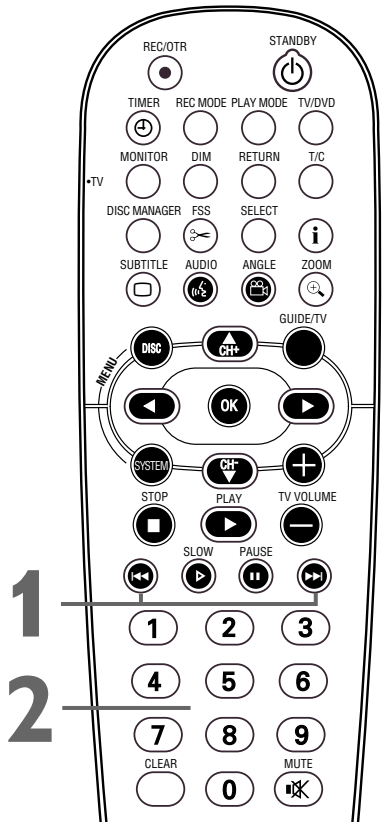
3 **Or, to return to play at the same place on the Disc, press DISC MENU again.**



Chapter/Track Selection

1 **Press Next ►►I during play to go to the next Track/Chapter. Press Previous I◄◄ once to return to the beginning of the current Track/Chapter.** Press Previous I◄◄ repeatedly to step back to previous Tracks/Chapters.

2 **Or, to go directly to any Track/Chapter during play, press the Number buttons to enter the Track/Chapter number.**
The number will show briefly beneath "C" (Chapter) in the Menu Bar at the top of the TV screen. The Menu Bar will disappear in a few seconds.
Make sure the Track/Chapter number you enter is on the Disc. Make sure the Chapter is within the current Title.



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MONITOR Button
Press to choose Disc mode or Monitor mode. In Disc mode, use the Index Picture Screen or view Disc play. In Monitor mode, watch TV channels through the Recorder or make a recording. *See page 21.*

DIM Button
Press repeatedly to adjust the brightness of or to turn off the display on the front of the DVD Recorder.

SUBTITLE Button
Press repeatedly during DVD play to select a subtitle language. *See page 48.*

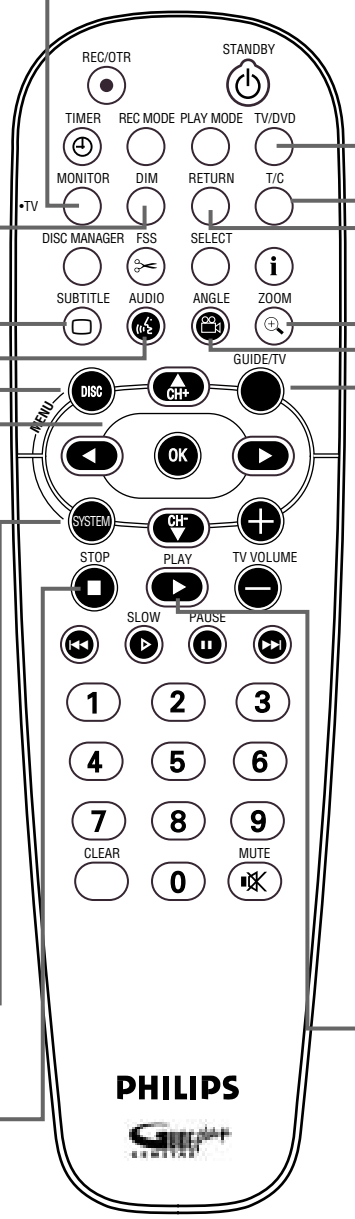
BLUE AUDIO Button
Press repeatedly to select a different DVD audio language or soundtrack. *See page 48.* Also use as directed for certain GUIDE Plus+® System features. *See pages 43-47.*

DISC MENU Button
Press during play to access a DVD's Title or Disc menu. *See page 23.* Press to see the Index Picture Screen of a DVD+RW/DVD+R. *See page 31.*

▲CH+, ▼CH-, ◄, ► Buttons
Press to select menu items. Press ▲CH+ and ▼CH- to change TV channels at the Recorder in Monitor mode.

SYSTEM MENU Button
Press to access or remove the Recorder's Menu Bars. *See page 28.*

STOP ■ Button
Press to stop Disc play or recording. Press and hold the STOP ■ button for three seconds to open or close the Recorder's disc tray.



TV/DVD Button
Press to switch between TV and DVD positions. The selected position will appear briefly on the display panel. Use TV position to watch one TV channel while recording another. *See page 36.*

T/C (Title/Chapter) Button
Press repeatedly to select "T" (Title/Track) or "C" (Chapter) in the Menu Bar. Press ▲CH+ or ▼CH- to choose a Title, Track, or Chapter to play. Press SYSTEM MENU to remove the Menu Bar. The T/C button has no effect in Monitor mode.

RETURN Button
Press to go to a previous menu. This option is not always available.

ZOOM Button
Press to access (Zoom) in the Menu Bar and enlarge the video image. *See page 49.*

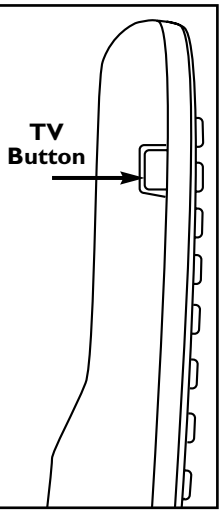
GREEN ANGLE Button
Press to select a different camera angle during DVD play. *See page 49.* Also use as directed for certain GUIDE Plus+® System features. *See pages 43-47.*

GUIDE/TV Button
Press to access or remove the GUIDE Plus+® System. *See pages 43-47.*

PLAY ► Button
Press to play a Disc.

The following buttons will work with some Philips TVs when you hold down the TV button on the side of the remote. Hold down the TV button at the same time you press these buttons. Otherwise, these buttons will change channels or power at the Recorder.

- **▲CH+ or ▼CH-**
  Press to change TV channels at the TV.
- **Number buttons**
  Press to choose a channel at the TV.
- **STANDBY**
  Press to turn on or off the TV.



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REC MODE Button
Press repeatedly to select a recording speed. This determines the quality of the recording and the length of time you can record. *See page 37.*

REC/OTR ● Button (Record/One-Touch Recording)
Press to start a recording. *See page 21.* Press to start a One-Touch Recording. *See page 34.*

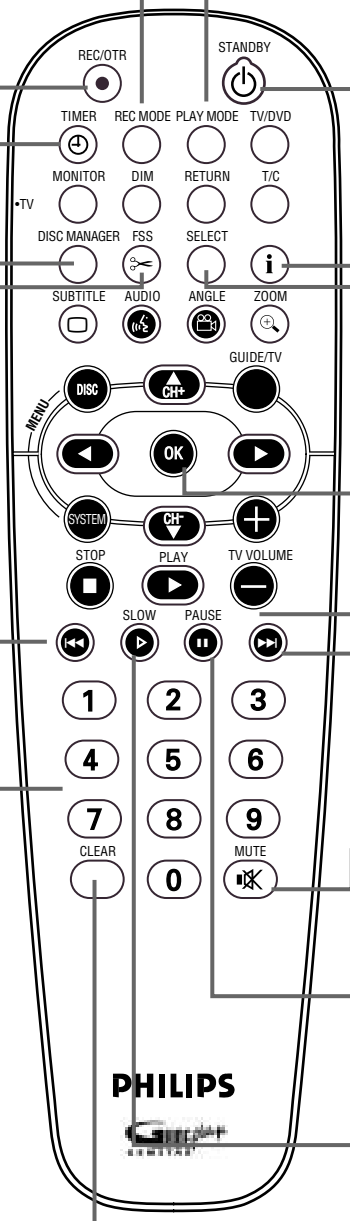
TIMER ◴ Button
Press to set a timer recording in the GUIDE Plus® System. *See pages 43-47.*

DISC MANAGER Button
Press to access the Disc Manager information. *See pages 41-42.*

FSS ✂ Button (Favorite Scene Selection)
Press to see or remove the Favorite Scene Selection menu during play of a DVD+R or DVD+RW. *See page 39.*

Previous ⏮ Button
Press to go to the beginning of the current Chapter/Track. Press repeatedly to go to the beginning of previous Chapters/Tracks. *See page 23.*

Number Buttons
Press to select numbered items in a menu. *See page 22.*
Press to play a specific Chapter or Track. *See page 23.*
Press to select a TV channel in Monitor mode.



PLAY MODE Button
Press during Disc play to choose a Repeat, Shuffle, or Scan mode.

STANDBY ⏻ Button
Press to turn on or off the power of the Recorder.

i (information) Button
Press to see program details in the GUIDE Plus+® System. *See pages 43-47.*

SELECT Button
Press to choose an item in the GUIDE Plus® System.

OK Button
Press to acknowledge or approve a menu selection.

TV VOLUME +/- Buttons
Press to increase or decrease the TV volume.

Next ⏭
Press to skip to the next Chapter or Track during play. *See page 23.*

MUTE 🔇 Button
Press to silence or restore the TV volume. Point the remote toward the TV, not the Recorder.

PAUSE ❚❚ Button
Press once to pause play. Press repeatedly to advance a picture one frame at a time. *See page 50.*

SLOW ▷ Button
Press repeatedly to play a Disc at 1/2, 1/4, or 1/8 the normal speed. *See page 51.*

CLEAR Button
Press to remove the GUIDE Plus® System menus.

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STANDBY-ON ⏻ Button
Press to turn on or off the Recorder.

Disc Tray
Insert a Disc here. Load the Disc with the label facing up. *See pages 21-22.*

Stop ■ button
Press to stop Disc play or recording.

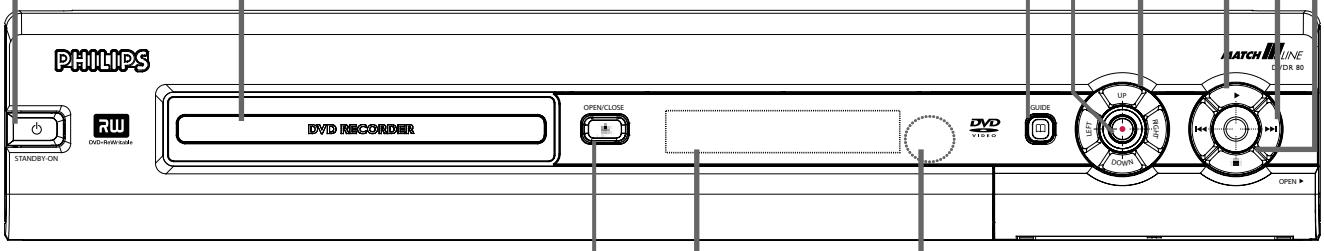
Next ▶▶| and Previous |◀◀ buttons
Press |◀◀ to go to previous Chapters/Tracks or to the beginning of the current one. Press ▶▶| to skip forward to the next Chapter/Track.

Play ▶ button
Press to play a Disc.

UP/DOWN/LEFT/RIGHT Buttons
Use these buttons to move through menus. Press the UP and DOWN buttons to change TV channels at the Recorder in Monitor mode.

Record ● button
Press to begin recording the current TV channel or video source. A red light will encircle the Record ● button and the disc tray during recording. *See page 21.*

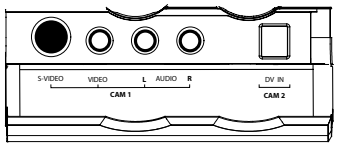
GUIDE button
Press to access or remove the GUIDE Plus+® System. *See pages 43-47.*



OPEN/CLOSE ⏏ button
Press to open or close the Disc tray.

Display Panel
Information about the current status of the Recorder or Discs appears here. This may include the current time, the elapsed playing time of a Disc, or the current TV channel.

Remote sensor
The sensor receives signals from the remote. Point the remote here, not at your TV, when using the remote control to operate the DVD Recorder.



CAM (Camera) jacks
DV IN CAM 2; S-VIDEO, VIDEO, and AUDIO In CAM 1
To access these jacks, flip down the door as indicated by the OPEN ▶ label on the door. Use these jacks when connecting a Camcorder or other equipment to the DVD Recorder. *See page 17.* When recording material that is playing on the other equipment, use the ▲CH+ or ▼CH- buttons in Monitor mode to select the CAM channel that matches the jack to which the equipment is connected.
If your Personal Computer has an IEEE 1394 Firewire connector, you may connect it to the Recorder's DV IN CAM 2 jack. Limited applications are available.

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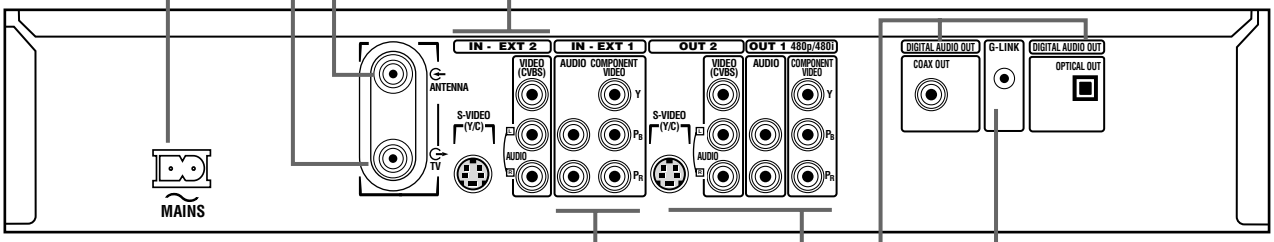
MAINS ~ jack
Connect the supplied AC power cord here. *See pages 10-16.*

TV jack
Connect the supplied RF coaxial cable to the Recorder's TV jack and to the RF IN or ANTENNA IN jack (75 ohm) on your television.

ANTENNA jack
Connect your antenna or Cable TV signal here. *See pages 10-16.*

IN EXT 2 jacks
Use these jacks to receive picture and sound from other equipment, such as a Camcorder or VCR. You will use these if you copy videotapes to a DVD+R, for example. *See page 17.* You only need one video connection from the other equipment, so use *either* VIDEO (CVBS) *or* S-VIDEO (Y-C).
- **VIDEO (CVBS):** Use a video cable to connect this jack to the Video Out jack of other equipment.
- **AUDIO L/R (left/right):** Connect audio cables here and to the Audio Out jacks of other equipment.
- **S-VIDEO (Y-C):** Use an S-video cable to connect this jack to the S-Video Out jack of other equipment.



IN EXT 1 jacks
Use these jacks to receive picture and sound from other equipment, such as a Camcorder or VCR, that has Component Video. You will use these if you copy videotapes to a DVD+R, for example. *See page 17.*
- **AUDIO L/R (left/right):** Connect audio cables here and to the Audio Out jacks of the other equipment.
- **COMPONENT VIDEO (Y PB PR):** Connect these jacks to the Component Video Out jacks of the other equipment.

OUT 1 and OUT 2 jacks
Use these jacks to connect the Recorder to your TV and/or Stereo.
- **VIDEO (CVBS):** Connect the yellow video cable here and to the TV's Video In jack. *See page 14.*
- **S-VIDEO (Y-C):** Connect an S-Video cable here and to a TV's S-Video In jack. *See page 13.*
- **COMPONENT VIDEO (Y PB PR):** Connect Component Video cables (red, blue, green) here and to a TV's Component Video In jacks. *See page 12.*
- **AUDIO L/R (Left/Right):** Use audio cables (red, white) to connect these jacks to the Audio In jacks of a TV or Stereo. *See pages 12-15.*

DIGITAL AUDIO OUT jacks
- **COAX OUT:** Connect a digital audio coaxial cable here and to the digital audio Coaxial In jack of a Stereo. *See page 16.*
- **OPTICAL OUT:** Connect a digital audio optical cable here and to the digital audio Optical In jack of a Stereo. *See page 16.*

G-LINK jack
Connect the G-Link cable here to have the Recorder operate a Cable Box for the GUIDE Plus+® System. Remove the Demonstration Pin from this jack first when you receive the Recorder. *See pages 18-20.*

Helpful Hints

- *Use the same EXT (external) number for each pair of audio and video connections. For example, if you use IN-EXT 2 S-VIDEO (Y/C), use the IN-EXT 2 AUDIO L/R jacks. IN-EXT means this jack is bringing IN the audio and video from an EXTERNAL or separate piece of equipment.*
- *Do not touch the inner pins of the jacks. Electrostatic discharge may damage the unit permanently.*
- *You only need one audio and one video connection to a TV. You will not use all the jacks. There are multiple jacks so you can connect to different TV styles or to other equipment.*

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28 Menu Bars

In addition to using the shortcut buttons on the remote to select features, you can use the Menu Bars. You can not access the Menu Bars during recording. When a Menu Bar is on the screen, press **▲CH+, ▼CH-, ◄, or ►** on the remote to select an item or to change the setting of an item.
The ▼▲◄ ► symbols in the Menu Bar mean more items are available.

Menu Bar 1

***Press SYSTEM MENU once to access Menu Bar 1. The following items are in Menu Bar 1.** Depending on the Disc, you may not be able to access each item at all times. Only available features can be selected.

User Preference Settings Set your preferences for audio and video quality. Set up Languages, Access Control, Record Settings, Installation features, and other Recorder features.

Title Select to play a Title or Track. Use the Number buttons or ▲CH+ or ▼CH- to select the Title or Track you want.

Chapter Select to play a Chapter. Use the Number buttons or ▲CH+ or ▼CH- to select the Chapter you want.

Audio Language If the current DVD has multiple audio soundtracks, choose one here. Check the Disc case for details. *See page 48.*

Subtitle Language If the current Disc has subtitles, select a language here. *See page 48.*

Angle Select to choose a different camera angle, if available, during DVD play. *See page 49.*

Zoom Select to enlarge the picture by 1.33, 2, or 4 times the normal size during play. *See page 49.*

Menu Bar 2

***While in Menu Bar 1, press ► repeatedly to move to Menu Bar 2. The following items are in Menu Bar 2.**

Analog Output Select , then press ▲CH+ or ▼CH- to choose Stereo (st), or Dolby Surround compatible (sur). *See page 50.*

Frame-by-frame play Select for forward or reverse frame-by-frame play. Press ▼CH-, then press ◄ or ► to move the picture one frame at a time. *See page 50.*

Slow motion Select to slow the speed of DVD, DVD+R, or DVD+RW play. *See page 51.*

Fast motion Select to play a Disc forward or backward at four, eight, or 32 times the normal play speed. Press ▼CH-, then press ◄ or ► to choose a backward (-) or forward speed. *See page 51.*

Time Search Select to enter a specific time within the current Track, Title, or Chapter at which you want play to begin. *See page 52.*

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On-screen Symbols

The following symbols will appear briefly on the TV screen when you activate some Disc features.

Scan The first 10 seconds of each Chapter/Track will play. *See page 52.*

Repeat All The entire Disc will play repeatedly. *See page 53.*

Repeat Title The current Title will play repeatedly. *See page 53.*

Repeat Chapter The current Chapter will play repeatedly. *See page 53.*

Repeat A Point A for Repeat A-B play has been entered. *See page 53.*

Repeat A-B A segment of the Disc will play repeatedly. *See page 53.*

Angle Multiple angles are available. *See page 49.*

Locked The Disc is Locked and cannot play without your code. *See page 55.*

Safe The current Disc is authorized to play. *See page 55.*

"X" The feature you just attempted is not available on the current Disc or at the current time.

Shuffle The Tracks or Chapters will play in random order. To start shuffled play, press PLAY MODE repeatedly until "shuffle" appears on the TV screen.

Status Box

The Status Box shows the current status of the Recorder and information about the current Disc, including Disc type, total playing time, and elapsed playing time. Set Status box to On if you want to see the following icons briefly when you access a feature. *See page 57.*

Disc status icons

recording

stop

pause play

pause recording

fast forward

fast reverse

slow motion

Disc type icons

DVD+R

DVD+RW

DVD-Video

Super Video-CD

Video-CD

no Disc

Disc error

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30 Information Boxes

Warning box

Special messages appear in a red bar at the bottom of the TV screen when appropriate, as in the example below.

Tuner Information box

Appears on the left side of the TV screen and identifies the current TV channel or Video source in Monitor mode. For example, if EXT1 appears in the Tuner Information Box, you can view or record the material that is playing on the equipment that is connected to the IN EXT 1 jacks on the rear of the Recorder.

Make sure you connected an Antenna or Cable TV signal to the Recorder's ANTENNA jack. *See pages 10-16.* Press MONITOR to put the Recorder in Monitor mode and view the TV channel or playback from other equipment.

Current TV channel

No signal - Channel is not receivable or no equipment is connected to this jack.

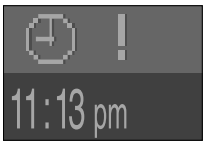
Copy-protected signal

Timer Information box

Displays the start time or date of the next scheduled timer recording and appears in the Index Picture Screen. You cannot remove it from the Index Picture Screen.

It may appear briefly at the beginning of a timed One-Touch Recording. It does not appear during recording or Disc play.

In Monitor mode, the Timer Information box will appear for a few seconds, then disappear.



Timer recording due later today

Timer recording set for another day within the upcoming year

The time at which the current One-Touch Recording will end.

Current time; no timer recordings are scheduled.

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The Index Picture Screen shows your recordings. It appears when you insert a DVD+R or DVD+RW or when you stop play or recording.
An Index Picture represents each recording. Next to each Index Picture is the program name (or channel and time), length, speed, and date. If GUIDE Plus+® System data is available, the Recorder uses that data to name the recording.
Empty disc areas also show in the Index Picture Screen. "Empty title" and the amount of remaining recording time may appear beside an empty Index Picture box. This indicates blank space that is available for additional recording. "Deleted title" and the amount of blank space will appear in blank areas of a DVD+R. You cannot reuse this space for recordings though.
The Index Picture Screen will dim after several minutes of no use. It will brighten again when you use the Recorder or its remote.

Titles

Three index pictures appear at a time. Press ▲CH+ or ▼CH- to move to other screens. Press STOP ■ to go directly to the first recording. Press ▲CH+ repeatedly to go to the Disc Information Screen. *See page 38.*

Disc Bar

The Disc Bar appears at the right of the Index Picture Screen. Its Disc Pointer indicates your current position on the Disc. Moving through the recordings by pressing ▲CH+ or ▼CH- moves the Disc Pointer. On a DVD+RW, resume play or recording from this point by pressing OK to play or REC/OTR ● to record. Later recordings will be overwritten. On a DVD+R, resume play from the Disc Pointer location by pressing OK. However, on a DVD+R, recording automatically begins at the last empty title space when you press REC/OTR ●.

Title Settings Menu

When you select an Index Picture, press ▶ to go to the Title Settings menu for that recording. Here, you can edit the current Title name, play the entire Title, or erase the selected Title. *See page 35.*

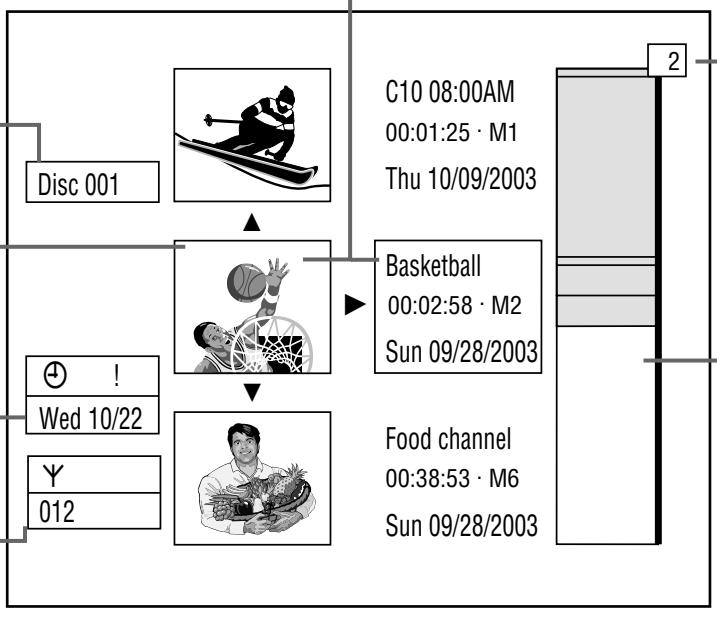
Current Title and Title description
Includes program name (or channel or source and time it was recorded), length of recording, the speed in which it was recorded, and the date of recording (if clock was set).

Disc Manager Number
Indicates the number assigned to the disc in the Disc Manager. *See pages 41-42.*

Index Picture
An image representing a recording. An empty box represents an area on the Disc that is empty. *To personalize the Index Picture, see page 39.*

Timer Information Box
Displays the current time or the time/date of the next timer recording. *See page 30.*

Tuner Information Box
Displays the current TV channel or video source. *See page 30.*



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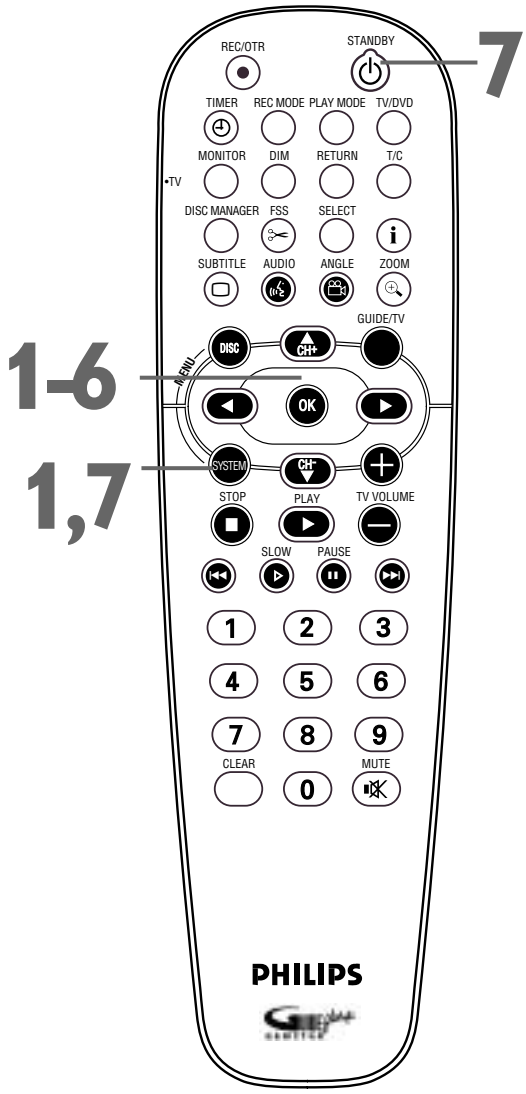
32 Clock

Once the GUIDE Plus+® System is operating, it will control the time and date of the Recorder. Until then, set the clock by following these steps.
After the GUIDE Plus+® System receives the clock data, it will override any earlier clock settings. You cannot change the time information once the GUIDE Plus+® System has set it.



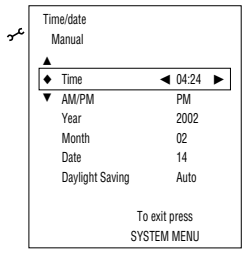
1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press ▼CH- repeatedly to select** at the end of the second menu. **Press ►.** This is not always accessible under some GUIDE Plus+® System circumstances.

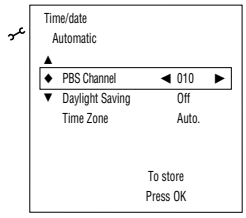
3 **Press ▼CH- repeatedly to select Time/Date, then press ►.**
If the time already is set by the GUIDE Plus+® System, you will see a message "Not valid to change; Valid data received via Guide." You cannot change the clock setting to override the time provided by the GUIDE Plus+® System. Press SYSTEM MENU repeatedly to remove the menu.

4 **Press ▲CH+ or ▼CH- to choose Automatic or Manual, then press ►.**

5 ● **Manual**
Press ▲CH+ or ▼CH- to choose Time, AM/PM, Year, Month, date and Daylight Saving. Press ◄ or ► to set each item correctly. Or, press the Number buttons to quickly enter the time in hours and minutes.



● **Automatic**
Press ▲CH+ or ▼CH- to choose PBS Channel, Daylight Saving, or Time Zone. Press ◄ or ► to change the setting of each item.
For PBS Channel, choose the channel number of your PBS station, then press OK. If you do not know your PBS channel number, choose Auto. The Recorder will find the PBS station for you and set the time.
Turn Daylight Saving On or Off. Choose Auto if you want the clock set according to the PBS station's Daylight Savings Time schedule.
Finally, choose your Time Zone. If you want the Recorder to use the time zone from which your PBS station broadcasts, choose Auto. If your PBS station broadcasts from a different time zone than the one in which you live, be sure to select your time zone.



6 **When all the information is correct, press OK.**

7 **Press SYSTEM MENU repeatedly to remove the menus, then press STANDBY ⏻ to turn off the Recorder.**

Helpful Hints

- *The Recorder may set the clock automatically after you complete Initial Setup.*
- *The Recorder can use the PBS channel to set the clock only if the PBS channel is memorized. To add (memorize) a channel, see page 33.*
- *If you change any item manually, PBS Channel will change to Off.*

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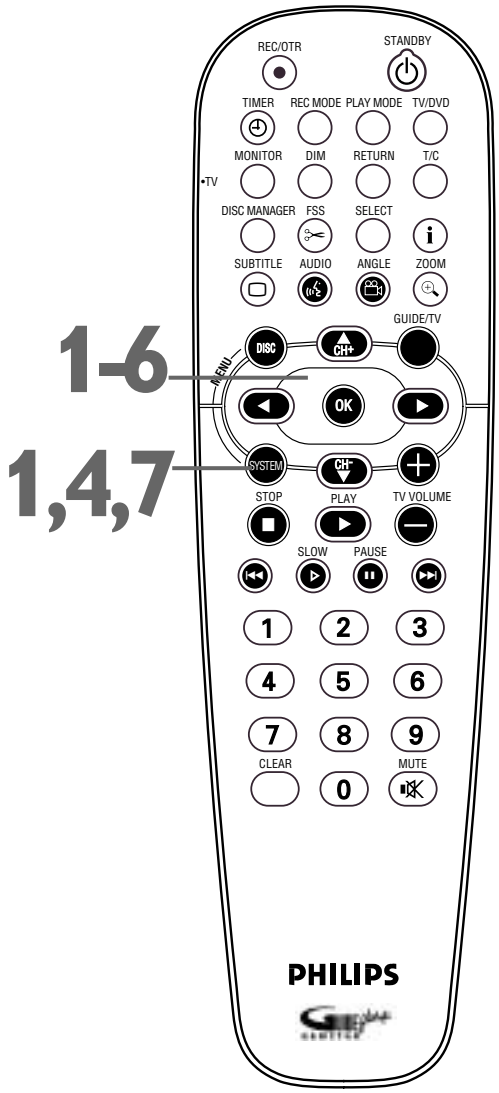
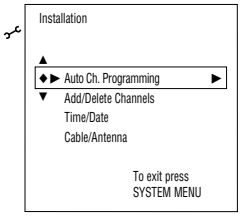
In the brief period between your Initial Setup of the Recorder and the setup of the GUIDE Plus+® System, you can adjust the TV channel listings. This option will not be available for selection once the GUIDE Plus® System is in use and receiving programming data. The GUIDE Plus® System will override any channel settings you make manually.



1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

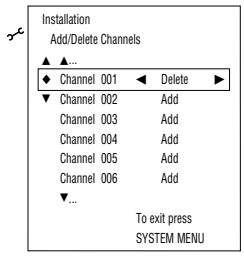
2 **Press ▼CH- repeatedly to select** at the end of the second menu page. **Press ►.**



3 **Press ▲CH+ or ▼CH- to select Auto Ch. Programming, then press OK.** "Searching for TV channels" will appear, along with a scale showing channels that are being memorized. The number of channels found will show on the screen as the searching progresses. This will take a few minutes, depending on the channels available.

4 When the channel search finishes, "Auto ch. search complete" will appear, along with the total number of channels found.
Press SYSTEM MENU. The Installation menu will reappear.
If you are satisfied with the channels found, press SYSTEM MENU again to remove the menu. You are finished.
To add or delete additional channels, press ▲CH+ or ▼CH- to select Add/Delete Channels, then go to step 5.

5 **Press ►.** A channel list will appear. Beside each channel number, you will see "Delete" or "Add."



6 **Press ▲CH+ or ▼CH- to select the channel number you want to add or delete, then press ◄ or ► to choose Add or Delete for that channel. Press OK to store your choice.** Repeat to add or delete other channels.

7 **Press SYSTEM MENU repeatedly** to remove all the menus when you are finished.

Helpful Hints

- *Only added channels are accessible using CH+▲/CH-▼. Select deleted channels with the Number buttons instead.*
- *The Recorder detects whether you have an Antenna or Cable TV signal. If you are receiving limited channels, check the Cable/Antenna setting. Follow steps 1-2 above. Press CH-▼ to choose Cable/Antenna, then press OK. Press CH+▲ or CH-▼ to choose Cable or Anten. Press OK, then press SYSTEM MENU. Press OK again to reset the channels. When the channel search ends, press SYSTEM MENU. This is not available once the GUIDE Plus+® System controls the channel list.*

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34 One-Touch Recording

1 **Place a recordable DVD+RW or DVD+R in the Recorder.**

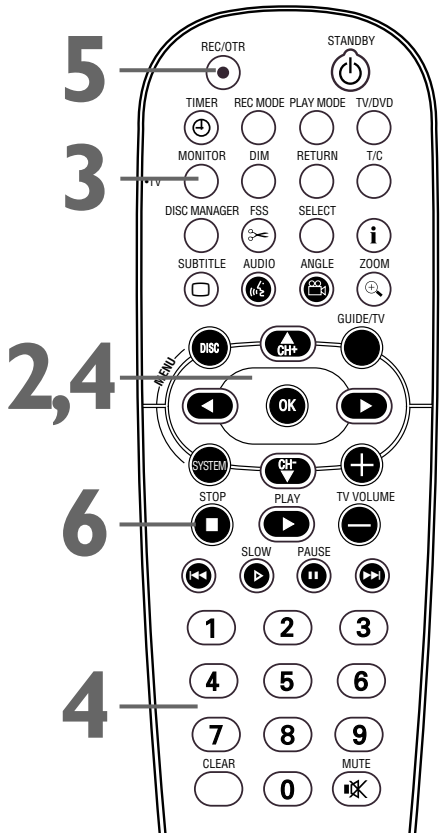
2 **In the Index Picture Screen of a DVD+RW, press ▲CH+ or ▼CH- to select an Empty Title** (or empty Index Picture box) that has enough time for the recording. Or, select the place at which you want to start the new recording in order to overwrite other recordings. *See page 36.*
You may skip this step if you use Safe Record. See step 5.
Or, if you are using a DVD+R, you may skip this step. Recordings on a DVD+R are made at the end of the Disc automatically. Previous recordings are not overwritten.

3 **Press MONITOR** to see TV channels through the DVD Recorder.

4 **Press ▲CH+, ▼CH-, or Number buttons to select a channel to record.** You cannot change channels during recording.
If you are using a Cable Box/Satellite Receiver that has a single RF Out/TV Out/Antenna Out/75 ohm jack, set the DVD Recorder to channel 3 or 4 in Monitor mode. (Choose the output channel of your Cable Box/Satellite Receiver.)
If your Cable Box/Satellite Receiver has Audio/Video Out jacks, set the Recorder to an EXT channel. Choose the EXT channel that corresponds to the jacks you used on the rear of the DVD Recorder (the jacks to which you connected the Cable Box/Satellite Receiver). Then, change TV channels at the Cable Box/Satellite Receiver.

5 **Press REC/OTR ● twice to start a 30-minute recording.**
Press REC/OTR ● repeatedly to record longer segments in thirty-minute increments. The length of recording available depends on the current recording mode/speed and the amount of time available on the Disc. *See page 37.* Recording will begin soon after you press REC/OTR ●. The Disc takes a few seconds to prepare for recording.
Or, use Safe Record to have the Recorder automatically find the empty space at the end of a DVD+RW; this prevents overwriting other recordings. To do so, press and hold REC/OTR ● for about two seconds, or until SAFE REC appears on the Recorder's display panel. Then, press REC/OTR ● repeatedly to choose the time length you want for your recording.

6 **Press STOP ■ if you need to stop the recording before the designated end time.** Otherwise, the Recorder will automatically stop recording at the designated end time and turn itself off.
Or, if you only pressed REC/OTR ● once, the Recorder will record the current channel or source until the end of the Disc is reached. Then the Recorder will turn itself off.



- *To play a DVD+R on another DVD Player, finalize the Disc. Follow the steps on page 40. You cannot record or edit a DVD+R after you finalize it.*
- *To edit your recordings, see pages 35 and 38-39. However, editing changes may not be accessible when you play the Disc on other DVD Players.*
- *To erase a recording, see "Erase this title" details on page 35.*

Helpful Hints

- *"Disc locked" will appear on the TV if a protected DVD+RW or DVD+R is in the Recorder.*
- *If the power fails during recording, the Index Picture Screen may not match the actual video content on the Disc. The last recorded Title may be lost. A power failure or unit failure/system crash also may destroy all the material recorded on a Disc.*
- *When the Disc is full, "End of Disc" will appear on the TV. DISC FULL will show on the Recorder's display panel.*
- *Press SYSTEM MENU during recording to access or remove the Status, Tuner, or Timer Information box. See pages 29-30.*
- *The recommended operating temperature range for the Recorder is 32°F-122°F for DVD+RW recording and 32°F-104°F for DVD+R recording. Exceeding these ranges may cause unstable recording results.*

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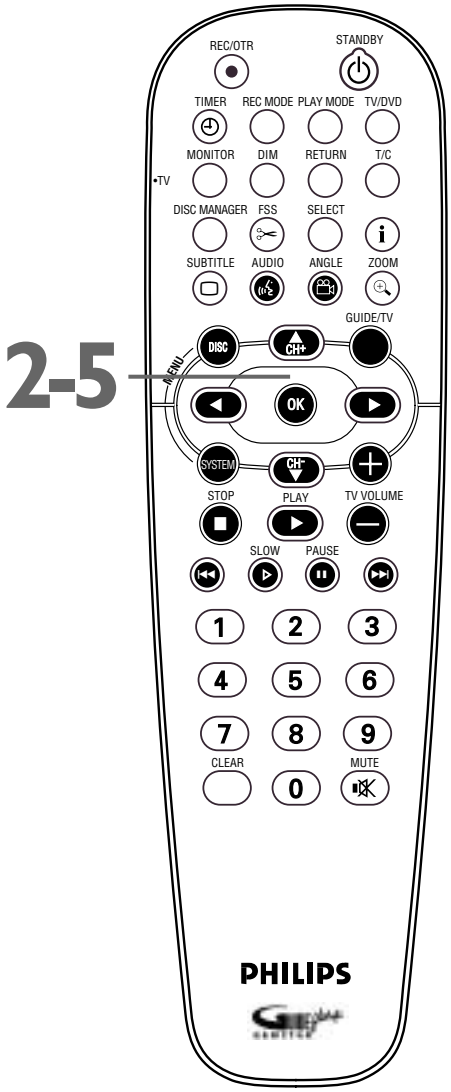
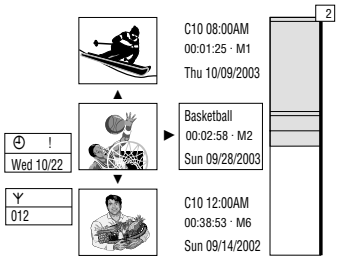
The Title Settings Menu lets you rename a Title or recording on a DVD+RW/DVD+R. From the same menu, you can play the entire selected Title or erase the chosen Title from the Disc.



1 When play is stopped and a DVD+RW or DVD+R is in the Recorder, the Index Picture Screen will appear. *See page 31.*



2 **Press ▲CH+ or ▼CH- to select the Index Picture of the recording you want to name, play, or erase, then press ►.** The Title settings menu will appear.

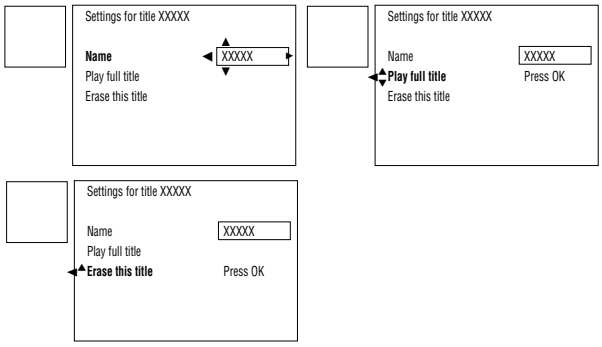
3 **Press ▲CH+ or ▼CH- to select Name, Play full title, or Erase this title. Continue accordingly at step 4.**

4

● **Name**
Press ►. The first character of the Title name will be selected.
Press ▲CH+ or ▼CH- to change the character.
Press SELECT to switch between upper and lower case letters. Press CLEAR to erase a character. To move to the previous or next character, press **◄ or ►**.
When the Title is complete, press OK. Storing Name will appear while the name is stored.

● **Play full title**
Press OK to start Disc play at the Title you selected.

● **Erase this title**
Press OK. The Recorder will ask you to confirm that you really want to erase the entire Title. **Press OK again to start erasing the Title.** "Erasing title" will appear during erasure. When erasing is complete, the Index Picture Screen will reappear.
(If you do not want to erase the Title, press ◄ instead.)



5 **Press ◄ to return to the Index Picture Screen if necessary.**

Helpful Hint

- *If you erase a Title from a DVD+R, you can't reuse the space for other recordings. "Deleted title" will appear beside an empty Index Picture box. Recordings are made at the end of a DVD+R automatically.*

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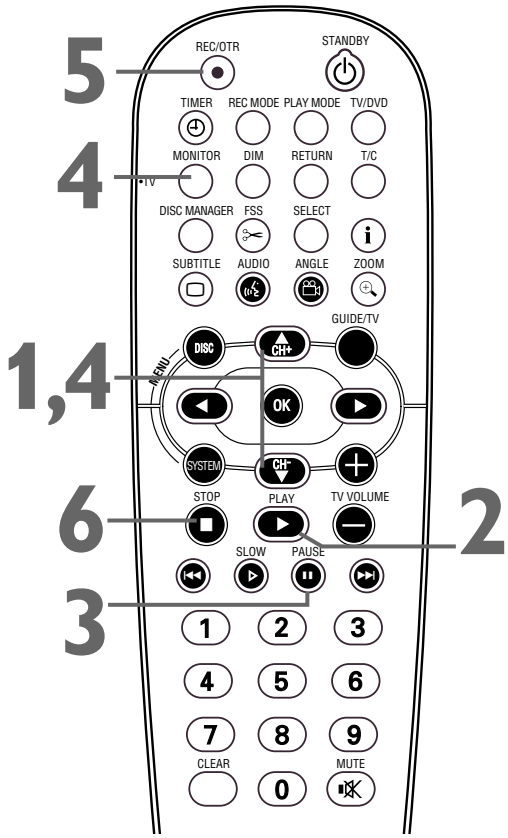
36 Append Recording, Record One Channel/Watch Another

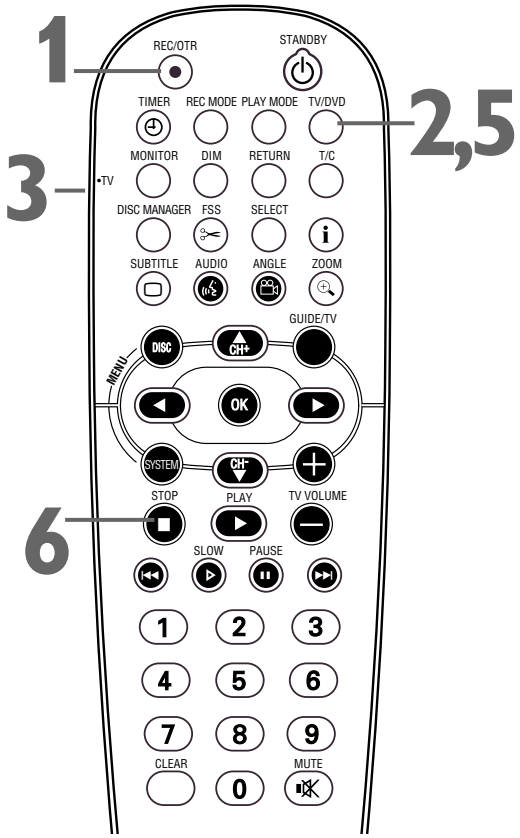
Append recording

To add a new video recording to an earlier recorded Title, follow these steps. This feature is not available on DVD+Rs, which always record at the end of the Disc.



1. **In the Index Picture Screen, press ▲CH+ or ▼CH- to select the Title to which you want to add a recording.**
2. **Press PLAY ►.**
3. **When you reach the point at which you want to start the new recording, press PAUSE ❚❚.**
4. **Press MONITOR, then press ▲CH+ or ▼CH- to select the channel (or other equipment) you want to record.**
5. **Press REC/OTR ●.** The new recording will start at the point you selected and overwrite the video material beyond this point, including later Titles.
6. **Press STOP ■** to stop recording.

Record One Channel/Watch Another



1. **Press REC/OTR ● to record the current TV channel.** A red light will encircle the Record ● button and the disc tray on the Recorder to indicate recording is in progress.
2. **Press TV/DVD on the Recorder's remote to put the Recorder in TV position.** TV will appear briefly in the lower left area of the Recorder's display panel.
3. **Use the TV remote to select the channel you want to watch at the TV.** (If you have a Philips TV, hold down the TV button on the side of the Recorder's remote and use the ▲CH+ and ▼CH- buttons to change channels at the TV. *See page 24.*)
4. **To return to the recording, use the TV remote to reselect the TV channel at which you usually view the DVD Recorder.** This may be a Video In channel or channel 3 or 4, depending on how you connected the DVD Recorder to the TV. The channel being recorded will reappear on the TV screen.
5. **Press TV/DVD on the Recorder's remote control to return the Recorder to DVD position.** DVD will appear briefly on the Recorder's display panel.
6. **To stop recording, press STOP ■.**

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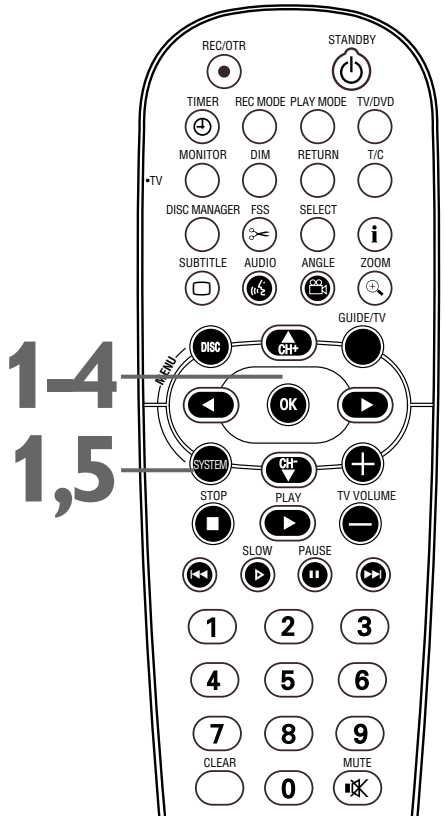
Record Settings



1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press ▼CH- repeatedly to select** **in the second page of menus, then press ►.**

3 **Press ▲CH+ or ▼CH- to select Record mode, Auto chapters, or Filter mode. Proceed as described in step 4.**

4 ● **Record mode**
Press ◄ or ► to choose M1, M2, M2x, M3, M4, M6, or M8, then press OK. These recording speeds define the picture quality of recordings and the maximum recording time for a Disc.
You also can choose a record mode by pressing REC MODE in Monitor mode or in the Index Picture Screen. You can't change record modes during recording.

Mode	Picture quality	Recording time per Disc
M1	Highest quality; least recording time per Disc	1 hour
M2	Equals quality of a pre-recorded DVD	2 hours
M2x	Better quality than an S-VHS videotape	2.5 hours
M3	Equals quality of an S-VHS videotape	3 hours
M4	Better quality than a VHS videotape	4 hours
M6	Equals quality of a VHS videotape	6 hours
M8	Maximum recording time, almost VHS quality	8 hours

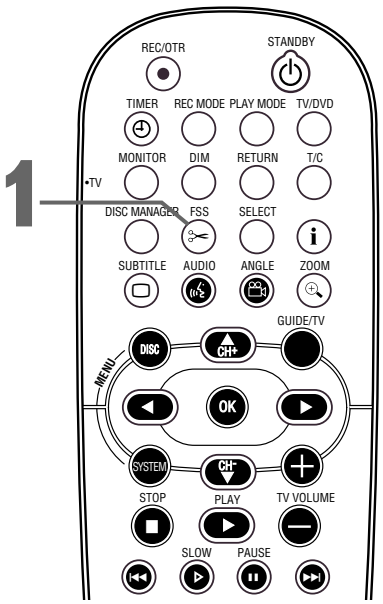
● **Auto chapters**
Press ◄ or ► to choose On or Off, then press OK. If Auto chapters is On, the Recorder will insert a Chapter marker every five to six minutes during recording. To disable this feature, select Off.
To insert Chapter markers after recording, see *page 39*. To insert Chapter markers manually during recording, see below.

● **Filter mode**
Press ◄ or ► to choose Stndrd (Standard) or Sport, then press OK. Select Sport to improve recording of images that move quickly. Otherwise, choose Stndrd.

5 **Press SYSTEM MENU repeatedly to remove the menus.**

Chapter Markers

Chapter Markers let you move easily through recordings by pressing Next ►►I or Previous I◄◄ during play. This gives you access to specific points on a DVD+RW/DVD+R much as you would choose a Chapter on a DVD.



1 **Press FSS ✂ during recording to insert a Chapter marker at the current position.** "Inserting chapter marker" will appear at the bottom of the TV screen. The maximum number of markers varies per Disc. When the maximum is reached, "Too many chapters" will appear. Delete some before inserting more. *See page 39.*

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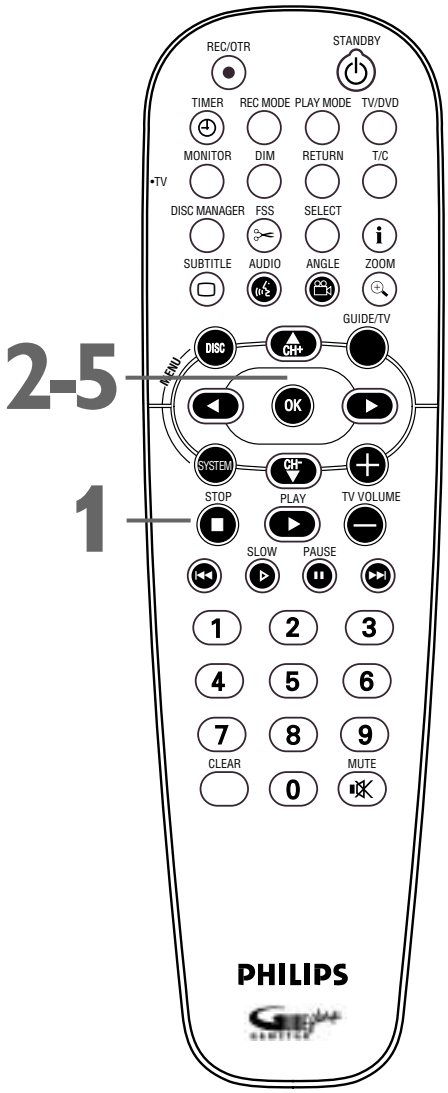
38 Editing: Disc Information Screen

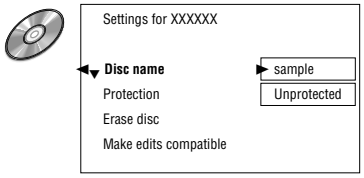
You can change settings for a DVD+RW or unfinalized DVD+R from the Disc Information Screen.



1 **When in the Index Picture Screen, press STOP ■ to select the first Title on the Disc.**

2 **Press ▲CH+ to enter the Disc Information Screen.**

3 **In the Disc Information Screen, press ▶ to enter the Settings menu.** You cannot do this if a DVD+R is finalized.



DVD+RW example

4 **Press ▲CH+ or ▼CH- to select Disc name, Protection, Erase disc (DVD+RW only), Make edits compatible (DVD+RW only), or Finalize disc (DVD+R only). Proceed as follows, depending on which feature you want to adjust.**

● **Disc name (DVD+RW and DVD+R)**
Press ▶. Press ◀ or ▶ to choose the character position, then press ▲CH+ or ▼CH- to enter a character. Press SELECT to alternate between capital and lower case characters. Press CLEAR to erase a character (the space will remain). **When the name is complete, press OK.**

● **Protection (DVD+RW and DVD+R)**
Press ▶. Press ▲CH+ or ▼CH- to select Protected or Unprotected, then press OK. If you protect the Disc, you cannot edit or record it. "Disc locked" will appear on the TV briefly if you try to do so. To edit or record again, select Unprotected. Remember, protecting a DVD+R is not the same as finalizing it. Finalization cannot be undone.

● **Erase disc (DVD+RW only)**
Press OK. "This will erase all titles Press OK to confirm" will appear. **Press OK again to begin erasing.** (If you decide not to erase the Disc, press ◀.) "Erasing disc" appears until erasing is complete. When the Disc is erased, the Index Picture Screen will reappear, showing the free space on the Disc.

● **Make edits compatible (DVD+RW only)**
Press OK. "This will take XX" and "Press OK to confirm" will appear to indicate how long the action will take. (If you decide to not make edits compatible, press ◀.)
Press OK again. "Working .." and a progress % bar will appear. The Index Picture Screen will reappear when the process is complete. Make edits compatible appears only if you have added Chapter markers or made Chapters invisible on the DVD+RW. *See page 39.*

● **Finalize Disc (unfinalized DVD+R only)**
Press OK. "Finalizing disc" will appear during the process. This may take a few minutes. Then, the Index Picture Screen will reappear.
You cannot unfinalize a DVD+R. You cannot record or edit the DVD+R after you finalize it. A DVD+R will play on other DVD Players only after you finalize it.

5 **If necessary, press ◀ when you are finished** and want to return to the Disc Information Screen.

Helpful Hints

- *Index Picture Screen details are on page 31.*
- *If a DVD+R was recorded on a different DVD Recorder, the settings may not be accessible.*
- *A disc name may contain a maximum of 64 characters.*

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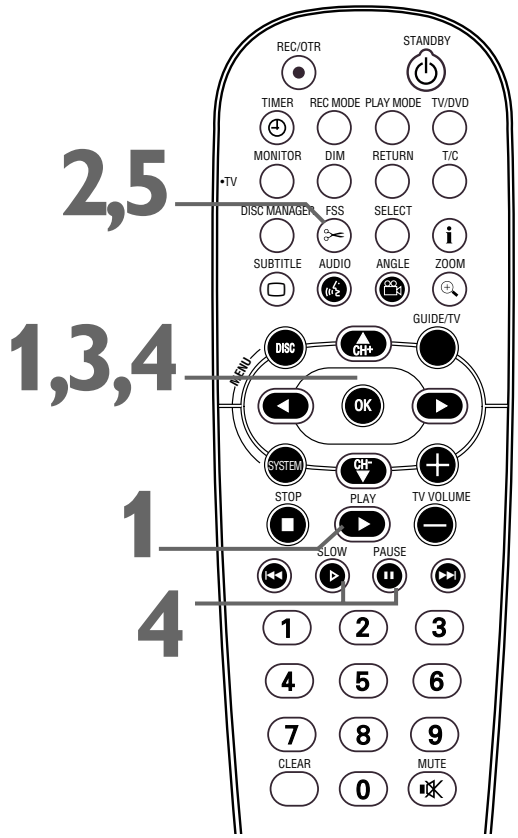
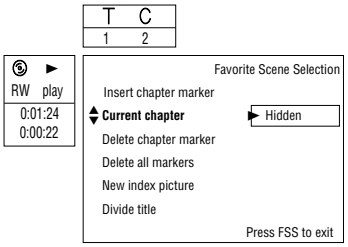
Although editing changes may not be accessible when you play a DVD+R or DVD+RW on DVD Players, the changes are available at the Recorder.



1 **In the Index Picture Screen, press ▲CH+ or ▼CH- to select the Title you want to edit. Press PLAY ► to begin play.**

2 **During play, press FSS ✂ .** The Favorite Scene Selection menu will overlay the current video image. The current Title and Chapter numbers will appear at the top of the screen.



3 **Press ▲CH+ or ▼CH- to select Insert chapter marker, Current chapter, Delete chapter marker, Delete all markers, New index picture, or Divide title (DVD+RW only).**

4 ● **If you select Insert chapter marker, press OK.** "Inserting chapter marker" will appear briefly. This places a Chapter marker at that point so you can go there quickly by pressing Next ►I or Previous I◄◄.

● **If you select Current chapter, press ►** (or SELECT) **repeatedly to select Visible or Hidden. Press OK.** By hiding chapters or making them visible, you determine which chapters you want to view. If you do not want to watch certain scenes (for example, commercials), insert Chapter markers at the beginning and end of the scene, then hide that segment. You can then watch your recording without the hidden chapters. The picture may freeze briefly between scenes, but you will not see the hidden content.

● **If you select Delete chapter marker, press OK.** "Deleting marker" appears briefly. This deletes the marker at the beginning of the current Chapter. (This option is not always available.)

● **If you select Delete all markers, press OK.** "This will delete all markers in this title. Press OK to confirm" will appear. **Press OK again.** (If you decide not to delete all markers, press ◄.)
(This option is not always available.)

● **If you select New Index Picture, press PAUSE ❚❚ or SLOW ▷ to accurately choose a frame of picture during play.** This frame will become the miniature picture that will appear in the Index Picture Screen for the current Title.
When you reach the desired picture frame, press OK. "This will update the index picture Press OK to confirm" will appear. **Press OK again.** (If you decide not to select a new Index Picture, press ◄.) "Updating menu" will appear, then the Index Picture Screen will reappear when the action is complete.

● **If you select Divide title (DVD+RW only), press PAUSE ❚❚ to accurately choose the point at which you want to start the new Title. Press OK**. "This will divide this title into two separate titles. Press OK to confirm" will appear. **Press OK again**. (If you decide not to divide the Title, press ◄.) "Dividing title" appears until the action is complete; the Index Picture Screen will reappear.

5 **Press FSS ✂** to remove the menu if necessary.

Helpful Hints

- *The maximum number of Chapters per Title varies. When you reach the maximum, "Too many chapters" will appear on the screen. Delete Chapters before making more.*
- *Favorite Scene Selection will disappear if you do not edit anything for several minutes.*
- *You cannot undo a Title division. The Index Picture Screen will show two Titles instead of one; both will have the same name. Change the name in Title Settings. See page 35.*
- *Editing changes on DVD+Rs will be accessible only during play on this Recorder. You can not edit a DVD+R after it is finalized.*
- *Insert chapter markers during recording by pressing FSS ✂ where you want a marker.*

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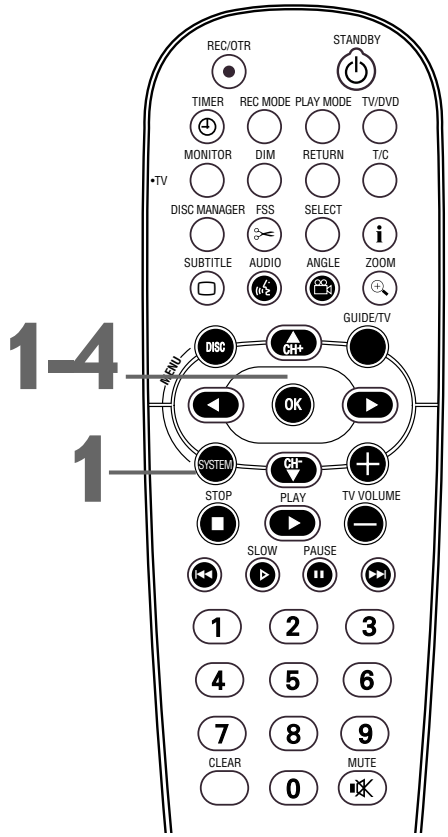
40 Finalize Disc

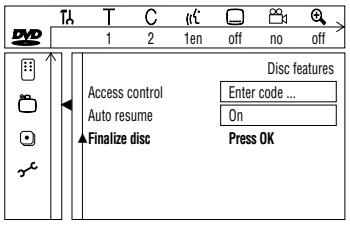
You can record and finalize DVD+Rs one time. After you fill a DVD+R or complete all the recordings you want on a single DVD+R, finalize it. Otherwise, the DVD+R will play only on this Recorder. To play the Disc on other DVD Players, you must finalize it first.
Once you finalize a DVD+R, you cannot record on it anymore or make editing changes. Therefore, make sure the Disc is as you want it before you finalize it.



1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press CH-▼ repeatedly to select in the second screen, then press ►.**

3 **Press CH-▼ repeatedly to select Finalize disc.** ***Finalize disc appears only when an unfinalized DVD+R is in the Recorder.***



4 **Press OK.** "Finalizing" will appear in the menu. The process may take a few minutes.
When finalization is complete, the Index picture screen will reappear.
You cannot unfinalize a DVD+R, and you cannot record or edit the DVD+R after you finalize it.
A DVD+R will play on other DVD Players only after the Disc is finalized.

Helpful Hint

- *You also can finalize a DVD+R in the Settings menu. See page 38.*

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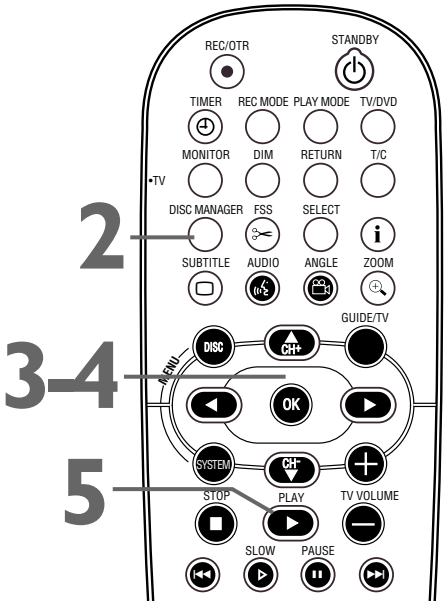
The Disc Manager gives you quick access to recordings made with this Recorder. It remembers the content of each Disc and shows how many unrecorded minutes remain on a Disc.
You can add only DVD+RWs or DVD+Rs to the Disc Manager. The Disc must contain at least one recording made on the Philips DVD Recorder. DVD+Rs can be finalized.

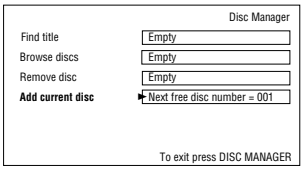


Add current disc

1 **Insert the DVD+RW or DVD+R for which you want to assign a number.**

2 **While play is stopped, press DISC MANAGER.**

3 **Press ▼CH- repeatedly to select Add current disc. Press ►.** If the Disc is already numbered, you cannot select Add current disc. "Already present" will show in the menu.

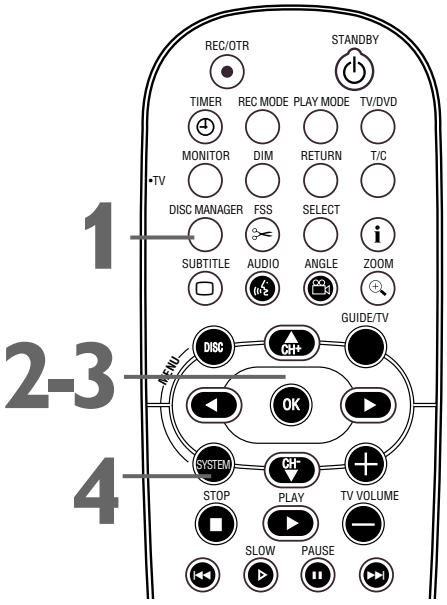


4 A number will be assigned to the current Disc. You cannot change the number. **Press OK.** The disc tray will open automatically. **Write the number on the Disc** so you can find it later. Use a permanent marker that is acceptable for writing on Discs. Do not use an ink pen or any instrument that would scratch the Disc.

5 **Press PLAY ► to close the disc tray and remove the Disc Manager menu.** If you reinsert the Disc, its number will appear in the top left section of the Index Picture screen.

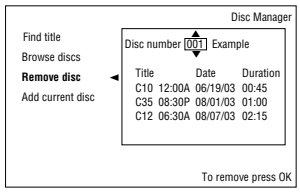
Remove disc

To remove a Disc from the Disc Manager, follow these steps. This may be necessary if you need to make room for new Discs or if you want to remove a damaged Disc.



1 **While Disc play is stopped, press DISC MANAGER.**

2 **Press ▼CH- repeatedly to select Remove disc. Press ►.** A Disc number and its contents (Titles) will appear in the menu.



3 **Press ▲CH+ or ▼CH- to select the Disc number you want to remove, then press OK.** This only removes the Disc from the Disc Manager memory. The contents of the Disc will not change. The Disc number you deleted will be available for assignment to a different Disc. Other Discs in the Disc Manager will keep their existing number.

4 **Press SYSTEM MENU** to remove the Disc Manager menu.

Helpful Hints

- *Disc Manager stores up to 999 Discs. A Disc can have up to 49 Titles.*
- *If a Disc is in Disc Manager, do not record on it with a different Recorder. Disc Manager will not recognize the Disc. Remove the Disc from the Disc Manager first. Make the new recording, then add the Disc to the Disc Manager again.*

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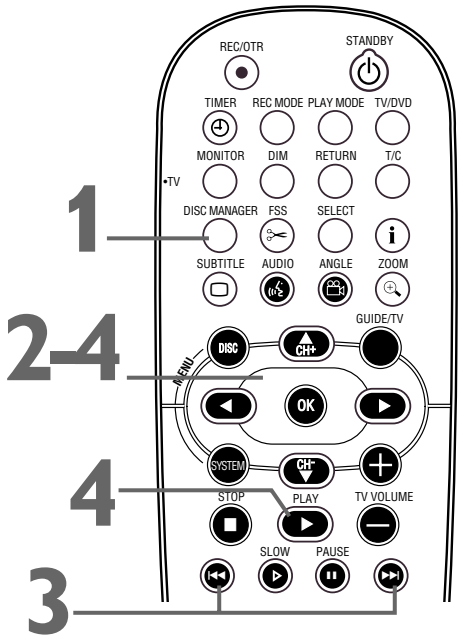
42 Disc Manager (cont'd)

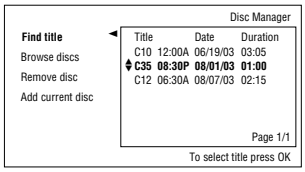
Find title

Follow these steps to find and play a recording saved on a Disc stored in Disc Manager.



1 **While Disc play is stopped, press DISC MANAGER.**

2 **Find title will be selected. Press ►.** A list of Titles stored in the Disc Manager will appear at the right side of the menu.

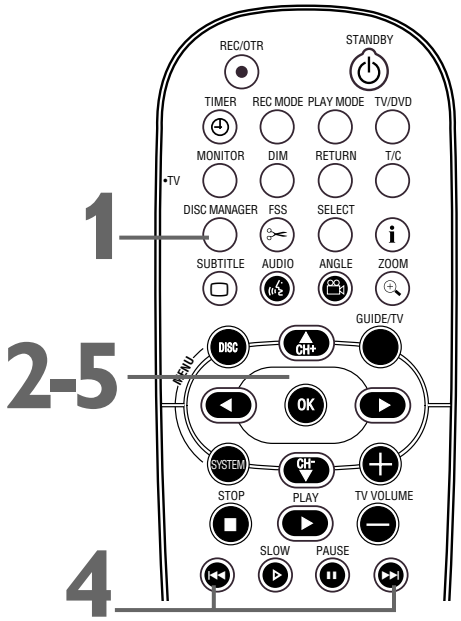


3 **Press ▲CH+ or ▼CH- to select a Title. Press Next ►►I or Previous I◄◄ to scroll through a page at a time.** The number of pages available will appear in the lower right corner of the menu.

4 **After selecting a Title, press OK.** If you chose a Title that is on the Disc that is in the Recorder, the Title will be selected in the Index Picture Screen. Press PLAY ► to play the Title.
If "Insert disc number" appears on the TV, the Title is on a different Disc. The Recorder's disc tray will open. Insert the requested Disc. Press OPEN/CLOSE ⏏ to close the tray. After a brief check, the Recorder will find the Title in the Index Picture Screen. ("Searching for ..." will appear while the Recorder scans the Disc for the Title you requested.) **Press PLAY ► to play the Title.**

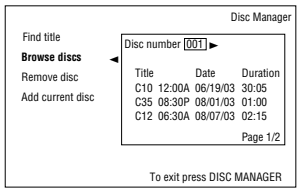
Browse discs

You can search for a Title stored in the Disc Manager. The appropriate Disc does not have to be in the Recorder. Or, you can search for blank space (at least one minute) for a new recording.



1 **While Disc play is stopped, press DISC MANAGER.**

2 **Press ▼CH- to select Browse discs, then press ►.** The screen will show the contents of the current Disc.



3 **Press ▲CH+ or ▼CH- to choose a different Disc number. Press ►.**

4 **Press ▲CH+ or ▼CH to select a Title. Press Next ►►I or Previous I◄◄ to scroll through pages of Titles.** The number of pages available will appear in the lower right corner of the menu.

5 **Press OK** to find the Title in the Index Picture Screen.
If "Insert disc number" appears, the Title is on a different Disc. The Recorder's disc tray will open. Insert the requested Disc. Press OPEN/CLOSE ⏏ to close the tray. After a brief check, the Recorder will find the selected Title in the Index Picture Screen. ("Searching for ..." will appear while the Recorder scans the Disc.)

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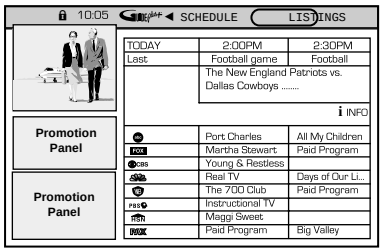
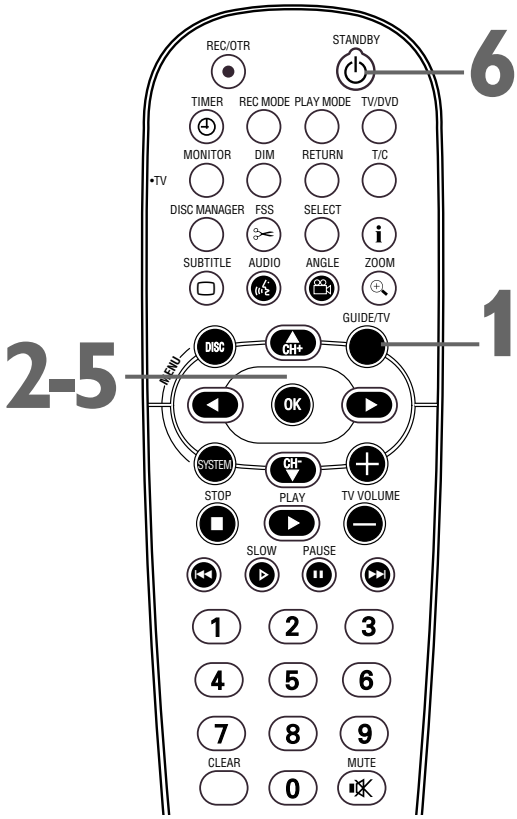
The GUIDE Plus+® System lists your TV channel programming information. You can use it to schedule recordings, glance at upcoming program content, or change channels at your Cable Box using the Recorder's remote control.



You can set up the GUIDE Plus+® System during Initial Setup. *See pages 18-20.* Or, change the settings later by following the steps below. This may be necessary if your Cable TV provider changes, if you move to a different zip code, or if you add or remove a Cable Box.

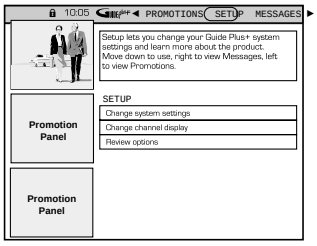


1 **Press GUIDE/TV to see the GUIDE Plus+® System screen.**

2 **Press ▲CH+ to go to the top of the menu.**

3 **Press ◄ or ► to choose SETUP, then press OK.**

4 **Press ▲CH+ or ▼CH- to select Change system settings, then press OK.**


10:05
PROMOTIONS
SETUP
MESSAGES
Setup lets you change your Guide Plus+ system settings and learn more about the product. Move down to use, right to view Messages, left to view Promotions.
SETUP
Change system settings
Change channel display
Review options
Promotion Panel
Promotion Panel

5 Your current setup details will appear, and a message will ask if these settings are correct. **Press ▲CH+ or ▼CH- to choose an appropriate answer, then press OK.**

● **If the settings are correct and no changes are needed, select "Yes, everything is correct."** Some Helpful Information will appear on the screen. Press OK again to remove it.

● **If the basic settings (Zip Code, Cable Box) are correct but the channel listings are wrong, select "Yes, but my channel lineup is incorrect."**
Press ▲CH+ or ▼CH- to choose your channel lineup. Check with your Cable TV provider if necessary. **Then, press OK.**
If no channel lineup matches your location, select "No Match" and press OK. *See page 44 to customize your TV channel listings.*

● **If the settings are incorrect, choose "No, repeat setup process."** Repeat the procedure you completed during Initial Setup. Follow the instructions on the TV screen.

6 **If you are setting up the GUIDE Plus+® System again, press STANDBY ⏻ to turn off the Recorder overnight.** The programming information will be available after several hours. You must turn off the Recorder to receive the programming information. Otherwise, follow the on-screen instructions to remove the menus.

Helpful Hints

- *If LISTINGS is empty, the Antenna or Cable TV signal is not connected securely or GUIDE Plus+® System data is not available. The Recorder needs time to collect this data. Turn off the Recorder overnight. If you have a Cable Box, leave it on.*
- *Normally, the video window changes when you select different channels. To view a single TV channel here, lock the window. To see the TV channels as you select them, unlock the window. Choose Lock or Unlock by pressing the BLUE AUDIO ((ι· button.*
- *You can use the buttons on the front of the Recorder to operate the GUIDE Plus+® System. Press GUIDE to access or remove the GUIDE Plus+® System. Use Play ► to make a selection. Use Record ● instead of the GREEN ANGLE button. Use UP, DOWN, LEFT, and RIGHT to move through the menus.*

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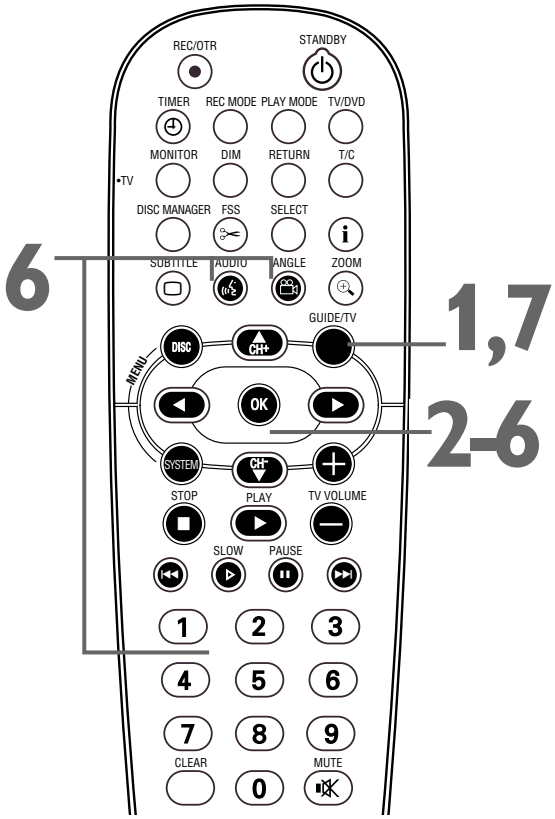
Change Channel Display

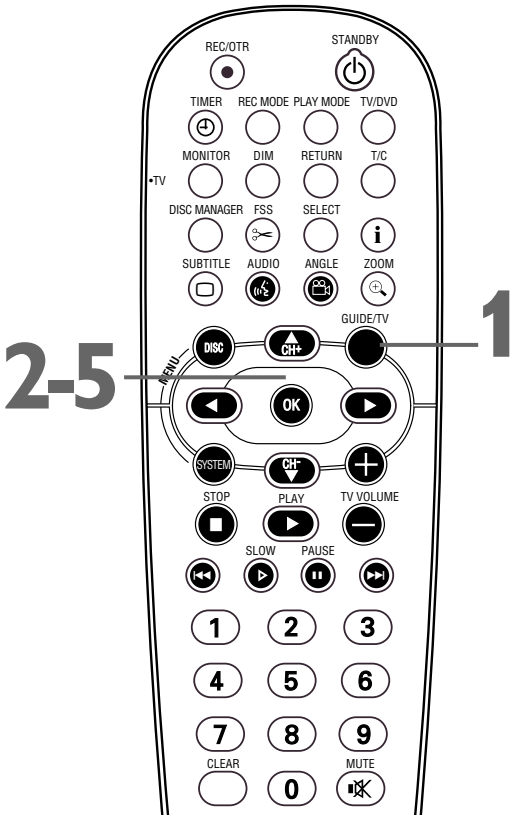
You can customize your channel listings to match the programming available in your area. Change the order of the TV channels for LISTINGS. Assign channel numbers to the TV stations and turn them on or off.



1. **Press GUIDE/TV.**
2. **Press ▲CH+ to go to the top of the menu.**
3. **Press ◄ or ► to highlight SETUP in yellow, then press OK.**
4. **Press ▼CH- to highlight Change channel display in yellow. Press OK.**
5. **Press ▲CH+ or ▼CH- to choose the TV station you want to change.**
6. **With the channel number selected in yellow, press the GREEN ANGLE button to turn the channel ON or OFF. Or, use the Number buttons to modify the channel number. Or, press ◄ to select the station's call letters. Press GREEN ANGLE or BLUE AUDIO to move the channel up or down in the list.**
7. **Press GUIDE/TV** to remove the menus when you are finished.

Review Options

You can choose whether you want to see the GUIDE Plus+® System first every time you turn on the Recorder.



1. **Press GUIDE/TV.**
2. **Press ▲CH+ to go to the top of the menu.**
3. **Press ◄ or ► to highlight SETUP in yellow, then press OK.**
4. **Press ▼CH- repeatedly to highlight Review options in yellow. Press OK.**
5. **Press ▲CH+ or ▼CH- to turn the GUIDE Plus+® System auto display On or Off, then press OK.** The menu will disappear. Choose On to see the GUIDE Plus+® System first every time you turn on the Recorder. If you choose Off, use GUIDE/TV or GUIDE to access the GUIDE Plus+® System; it will not appear automatically every time you turn on the Recorder.

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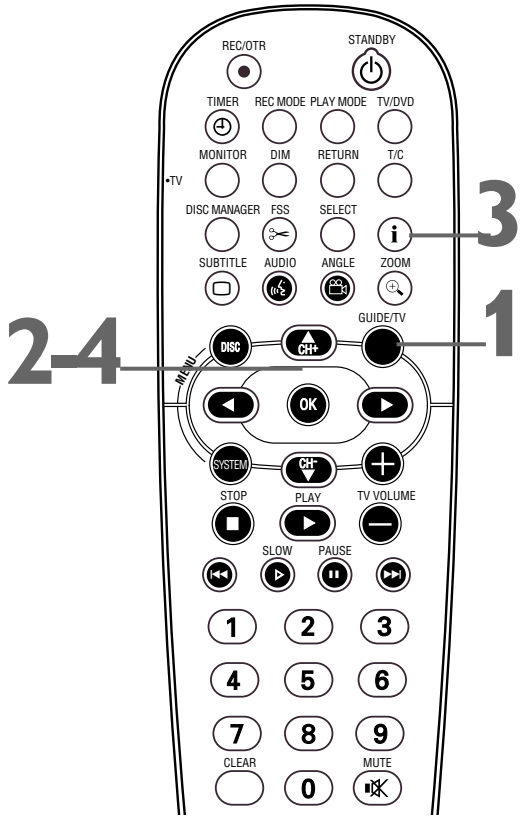
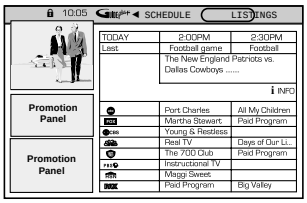
Listings

This screen shows you all the TV programs available for the upcoming week. The Listings show the programs available in 30-minute segments.



1 **Press GUIDE/TV on the remote or GUIDE on the front of the Recorder.** The LISTINGS screen will appear.



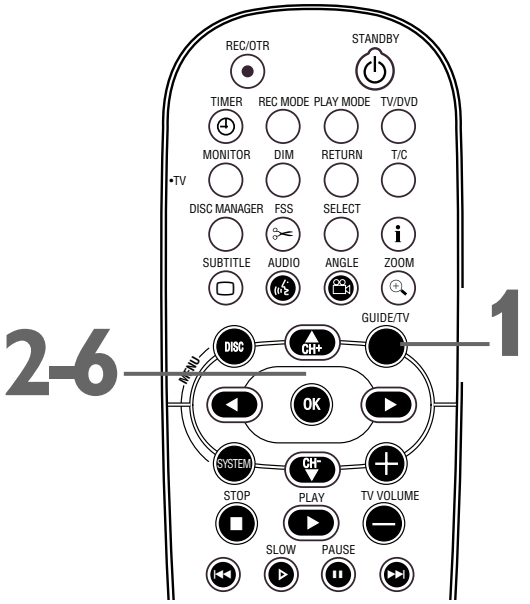
2 **Press ▲CH+ or ▼CH- to choose a TV channel.** Or, use the Number buttons to choose a channel. Use Previous I◄◄ or Next ►►I to scroll a page of channels at a time.

3 **Press ◄ or ► to select a TV program.** Press ► to see later programs. Press ◄ to see earlier programs. You cannot review program listings that have occurred already (before the current time). **Press i to see details on the selected program or its TV channel.**

4 If you chose a program that is on the air currently, **press OK** to remove the Listings and watch the show. If you chose a program that will occur later, **press OK** to remove the Listings and go to that channel. To return to the program you were watching before, press CLEAR, GUIDE, or GUIDE/TV.
To record the selected program, press GREEN ANGLE .
To save a program as a Favorite, press BLUE AUDIO .

Sort

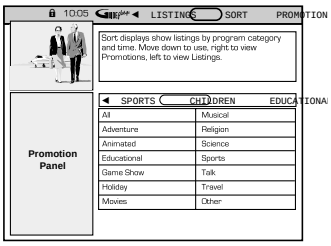
This feature categorizes TV programs into entertainment genres, such as Children's, Sports, etc. This will be helpful when you want to find a certain type of program, but are not sure what specific shows are available.



1 **Press GUIDE/TV.** The LISTINGS screen will appear.

2 **Press ▲CH+ to go to the top of the screen.**

3 **Press ► to highlight SORT in yellow, then press OK.**



4 **Press ◄ or ► to highlight a category in yellow. Press OK.** You can choose CHILDREN, EDUCATIONAL, NEWS, VARIETY, SERIES, A-B-C, MOVIES, or SPORTS.

5 **Press ▼CH-, ▲CH+, ◄, or ► to choose a sub-category, then press OK.** Programs that fit in the category will be listed.

6 **Press ▼CH- or ▲CH+ to select a program, then press OK** to watch the program and remove the menus.
To record the selected program, press GREEN ANGLE .
To save a program as a Favorite, press BLUE AUDIO .

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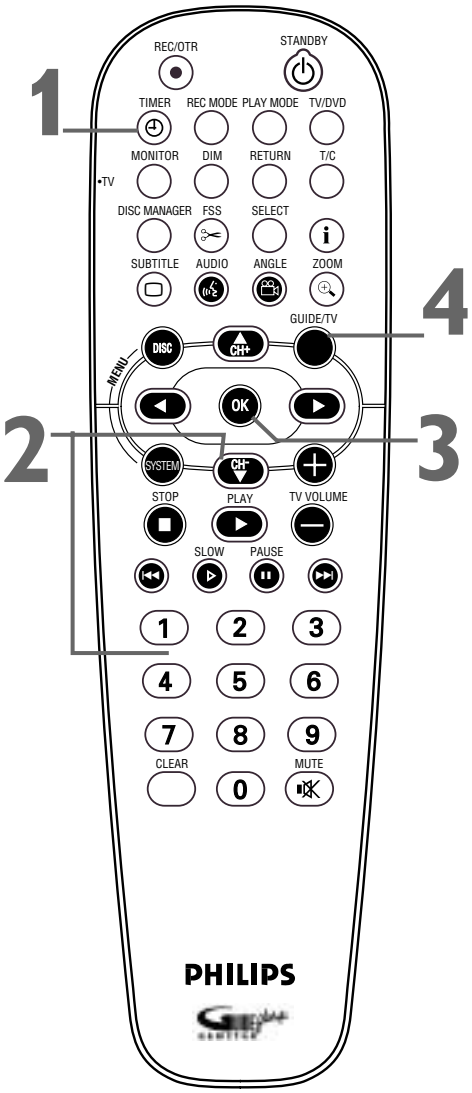
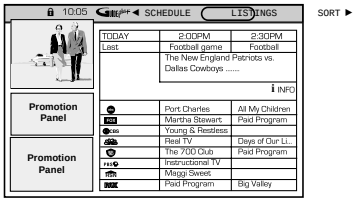
Timer Recordings

Use the GUIDE Plus+® System to set timer recordings for when you are away. Simply enter the time, date, and channel you want to record. Or, use the PlusCodes from your local TV listings or newspaper to set a recording. Place a DVD+R in the Recorder to ensure previous recordings are not overwritten. If a DVD+RW is in the Recorder, recording will start at the beginning of the Disc. The timer recording will replace existing recordings.



1 **Press TIMER** ⏲ to access the RECORD screen in the GUIDE Plus+® System.



2 **Use the Number buttons enter the details of your recording.** Use the Arrow buttons to choose an item to change (Date, Start/End Time, or Channel).
Enter the Date as month/day/year.
Enter the Start Time and End Time in hours and minutes. Choose AM or PM by pressing BLUE AUDIO ((ζ repeatedly while the "a" or "p" is highlighted in yellow.
Make sure you enter an available Channel number.

Or, if you know the PlusCode of the program you want, press ▼CH- repeatedly to select PlusCode. Use the Number buttons to enter the PlusCode from your TV listings.

3 **After entering the Date, Time, and Channel OR the PlusCode, press OK.** Program details or other messages about the show will appear in the GUIDE Plus+® System if available. Such messages will either confirm that the recording is set or advise you to change some elements of the recording, such as the start or end time. Follow the instructions provided on the screen.

4 **When all the information is correct, press GUIDE/TV** to remove the menu.

Timer Recording Tips

- To stop a timer recording that is in progress, press STOP ■.
- To remove the RECORD screen, press CLEAR.
- You must have GUIDE Plus+® System data available in order to use a PlusCode. Check your GUIDE Plus+® System settings and give the Recorder at least 24 hours to obtain data before setting a timer recording using a PlusCode. *See page 43.*
- To see what recordings you have set, use SCHEDULE. *See page 47.*
- "Recording about to start" appears on the TV screen a few minutes before its scheduled beginning. The TIMER light will flash in the Recorder's display panel. The timer recording will occur whether the Recorder is on or off.
- If you turned off the Recorder, it will turn on for the recording. If your TV is also on and the GUIDE Plus+® System appears on the screen, press GUIDE/TV to remove it. You can watch the program while it is recording.
- When a timer recording is finished, the Recorder will turn itself off.
- You can't change TV channels at the Recorder during a timer recording.
- Place a DVD+R in the Recorder to ensure previous recordings are not overwritten. If a DVD+RW is in the Recorder, recording will start at the beginning of the Disc. The timer recording will replace existing recordings on a DVD+RW.

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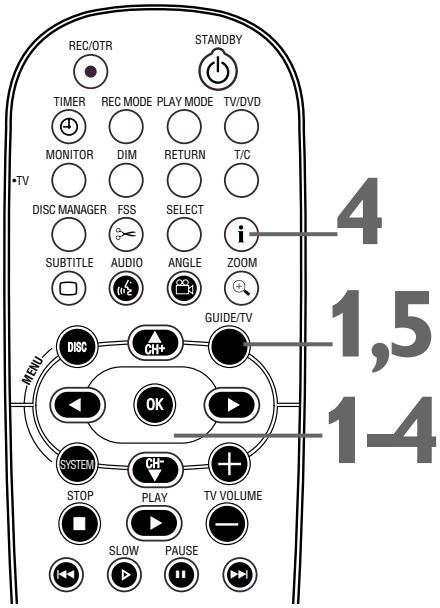
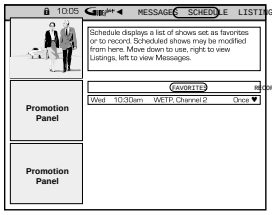
Schedule

This feature lists the TV programs you have set to record or as a Favorite.



1 **To check your Favorites or Recordings, press GUIDE/TV. Press ▲CH+ to go to the top of the screen.**

2 **Press ◄ or ► to highlight SCHEDULE in yellow. Press OK.**


10:05
MESSAGES
SCHEDULE
LISTINGS
Schedule displays a list of shows set as favorites or to record. Scheduled shows may be modified from here. Move down to use, right to view Listings, left to view Messages.
FAVORITES
Wed 10:30am WETP, Channel 2 Once
Promotion Panel
Promotion Panel

3 **Press ◄ or ► to highlight FAVORITES or RECORD** in yellow. Your Favorites or your upcoming Recordings will show in a list. If you have not set any, this will be indicated instead.

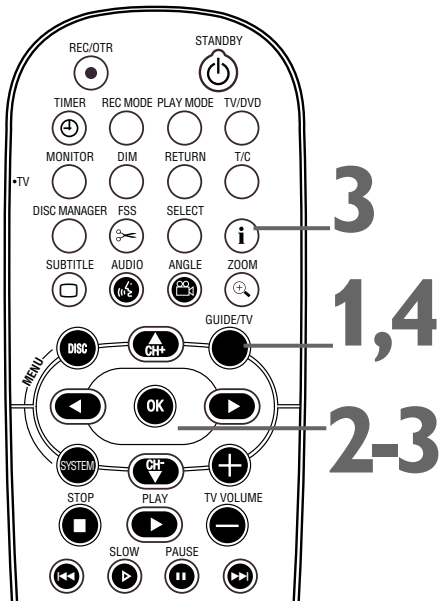
4 **Press ▼CH- or ▲CH+ to choose the program you want. To access or remove details about the program, press i.**

- For each recording, you will see the recording date, start time, the program title or channel number, and the recording frequency. To change the Start/End time, press OK. Use the Number buttons to change the times as directed on the screen, then press OK. To change the recording quality, press REC MODE repeatedly.
- Press BLUE AUDIO to cancel a selected Recording or remove a TV program from the Favorite list permanently.
- Press GREEN ANGLE repeatedly to change the frequency of a Favorite or Recording. Choose Once, Weekly, Regularly (Daily), or Off. Choosing Off disables the program's status as a Favorite or Recording, but the program will remain in the Schedule. To later record the program or make it a Favorite, press GREEN ANGLE to change its frequency.

5 **Press GUIDE/TV** to remove the menu.

Messages and Promotions

These areas provide more information about the GUIDE Plus+® System or display advertisements that may interest you.

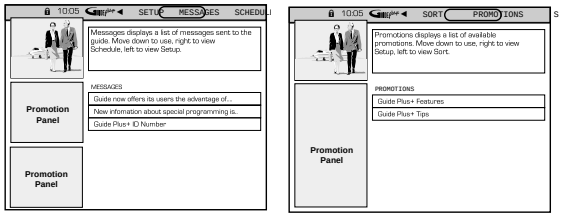


1 **Press GUIDE/TV.**

2 **Press ▲CH+ to go to the top of the screen.**

3 **Press ◄ or ► to highlight MESSAGES or PROMOTIONS in yellow. Press OK.**

- MESSAGES: Unread messages show a closed yellow envelope in the video window. **Press ▲CH+ or ▼CH- to choose a message. Press OK to open it.** Press GREEN ANGLE to delete a message. Messages are not always available.
- PROMOTIONS: Various products or the GUIDE Plus+® System are described here. **Press ▼CH- or ▲CH+ to choose a Promotion, then press i.** Press ► to remove the information.


10:05
SETUP
MESSAGES
SCHEDULE
Messages displays a list of messages sent to the guide. Move down to use, right to view Schedule, left to view Setup.
MESSAGES
Guide now offers its users the advantage of...
New infomation about special programming is..
Guide Plus+ ID Number
Promotion Panel
Promotion Panel
10:05
SORT
PROMOTIONS
Promotions displays a list of available promotions. Move down to use, right to view Setup, left to view Sort.
PROMOTIONS
Guide Plus+ Features
Guide Plus+ Tips
Promotion Panel

4 **Press GUIDE/TV to remove the menus.**

Helpful Hints

- *Messages are available for 60 days after receipt.*
- *The Guide Plus+ ID number appears at the end of MESSAGES. You cannot delete it. You may need it for service reference.*

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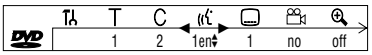
48 Audio Language, Subtitles

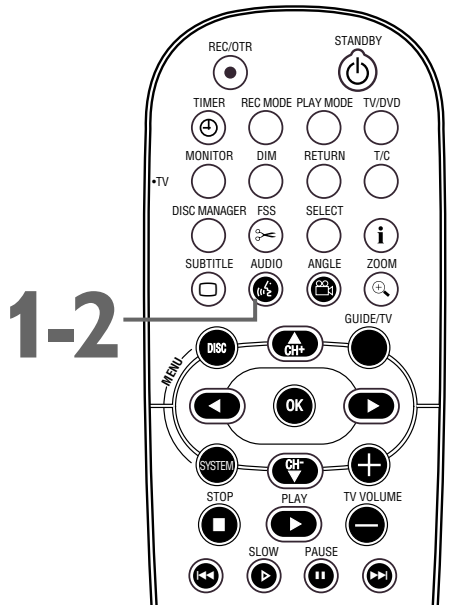
Audio Language

Some DVDs are recorded in different languages. For example, you may be able to watch the same movie in French, Spanish, etc. The movie may have special audio features, such as a director's commentary or music soundtrack. If these are available on the DVD, access the different languages or featured soundtracks by following these steps.

1 **During DVD play, press the AUDIO button.**
Audio will be selected in the Menu Bar.

2 **Within five seconds, press the AUDIO button repeatedly to see the different languages available.** Or, press ▲CH+ or ▼CH- repeatedly to see the different languages. The language you select will be audible in a few seconds. The Menu Bar will disappear automatically in a few seconds.
The languages or options may be abbreviated. For example, French may be Fr. See your Disc case for details on available audio features and explanations.



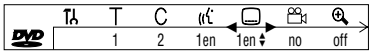


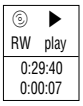
Subtitles

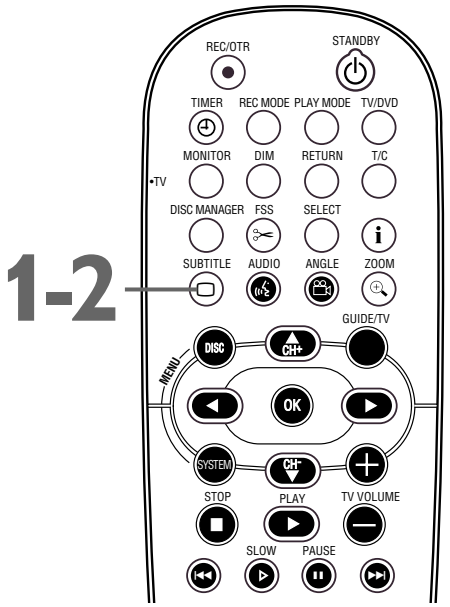
Some DVDs include subtitles in different languages. Or, material you recorded onto a DVD+RW or DVD+R might include subtitles. To choose subtitles, follow these steps.

1 **During play, press the SUBTITLE button to select** in the Menu Bar.

2 **Within five seconds, press the SUBTITLE button repeatedly to see the different subtitle languages.** Or, press ▲CH+ or ▼CH- to see the different subtitle languages. Subtitles will appear after a few seconds. The Menu Bar will disappear automatically in a few seconds.
You can choose subtitles only if they are available on the Disc.







Helpful Hint

- *If you record from a device at the Recorder's DV IN CAM 2 jack, the recording date and time will be recorded as a subtitle. Press SUBTITLE to see the recording date and time in the bottom right corner of the TV screen during play.*

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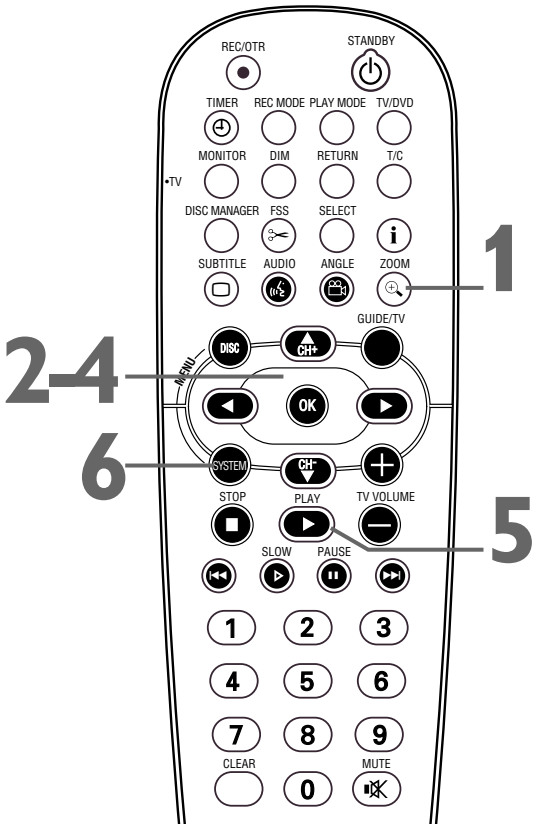
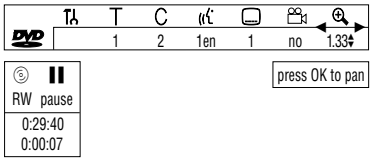
Zoom

Zooming lets you enlarge the video image during play and pan through the enlarged image.



1 **Press ZOOM ⊕ during Disc play to select ⊕ in the Menu Bar.**

2 **Within five seconds, press ▲CH+ or ▼CH- to choose 1.33, 2 or 4.** Play will pause. The still picture will appear at 1.33, 2, or 4 times the normal size.



3 **To move the enlarged picture, or "pan," press OK. Then, press ▲CH+, ▼CH-, ◄, or ►.**

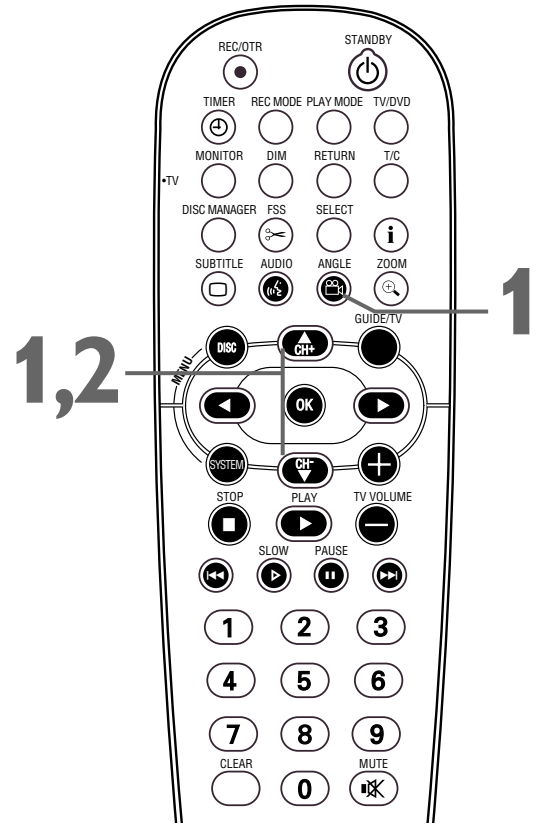
4 **Press OK again to see the still, zoomed picture without the Menu Bar.**

5 **To return to regular play, press PLAY ►.**

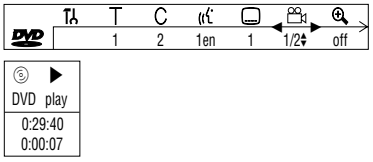
6 **Press SYSTEM MENU to remove the Menu Bar again.**

Camera Angle

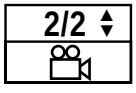
Some DVDs include scenes recorded from different perspectives or angles. To watch segments from a different angle, follow these steps. Multiple angles must be recorded on the DVD.



1 **During DVD play, press the GREEN ANGLE button to select in the Menu Bar.**
Within five seconds, press ▲CH+ or ▼CH- or the GREEN ANGLE button repeatedly to select a different angle. In a few seconds, play will change to the new perspective.



2 **Or, if the Angle symbol appears** in the top left corner of the TV screen during DVD play, multiple angles are available. Simply **press ▲CH+ or ▼CH-** to switch among the different perspectives.



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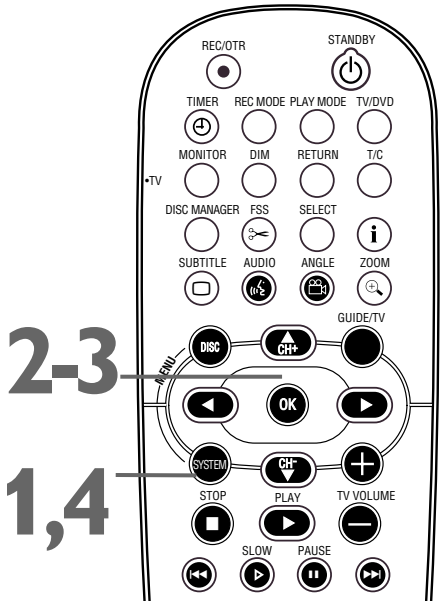
Sound

Choose a sound setting based on the capabilities of the equipment to which you connected the DVD Recorder. *See pages 9-17 and 59.*

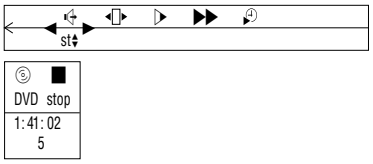


1 **Press SYSTEM MENU.**

2 **Press ▶ repeatedly to select in the second Menu Bar.**

3 **Press ▲CH+ or ▼CH- to select st (stereo) or sur (Dolby Surround).**

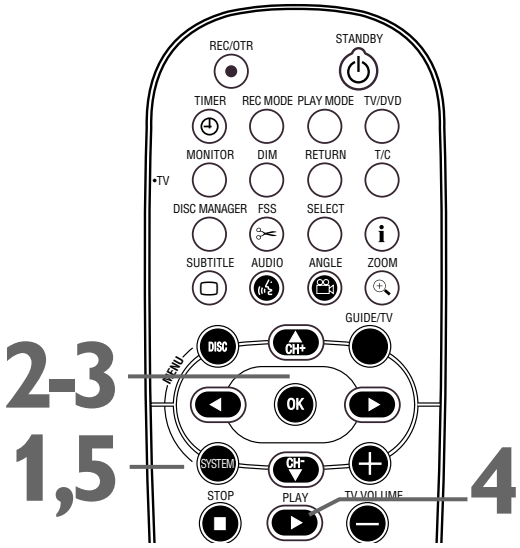
- Select st (stereo) to hear stereo sound. This will work with any type of equipment that has right and left audio jacks (usually red and white).
- Select sur (Dolby Surround) if your audio equipment is compatible with Dolby Surround. If it is, usually a Dolby Pro Logic logo will appear on the equipment.



4 **Press SYSTEM MENU to remove the Menu Bar.**

Still Picture

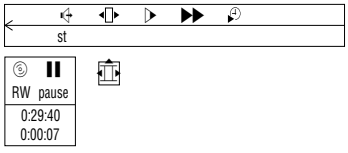
To quickly pause play, press PAUSE ❚❚ on the remote control during play. To advance the still picture one frame at a time, press PAUSE ❚❚ repeatedly. To resume play, press PLAY ▶.
Or, to freeze the picture during Disc play using the Menu Bar, follow the steps below.



1 **Press SYSTEM MENU during play.**

2 **Press ▶ repeatedly to select in the second Menu Bar.**

3 **Press ▼CH- to freeze the picture, then press ◀ or ▶ to move the picture backward or forward one frame at a time.**
Do not leave a still picture on your TV more than five minutes. This may etch the image onto your screen permanently. Other still visual elements, such as TV station logos or video games, also will damage your TV screen if left too long.



4 **Press PLAY ▶ to resume regular play.**

5 **Press SYSTEM MENU to remove the Menu Bar.**

Helpful Hint

- *The Recorder also refers to Sound settings as Analog output. This means the sound the Recorder sends to your audio equipment (stereo or TV) is analog, or two-channel, left and right. You know you are using analog sound because you used the red and white, left and right, Audio jacks in your connections. See page 59. Whether you adjust the sound settings here or as described on page 59, the results will be the same.*

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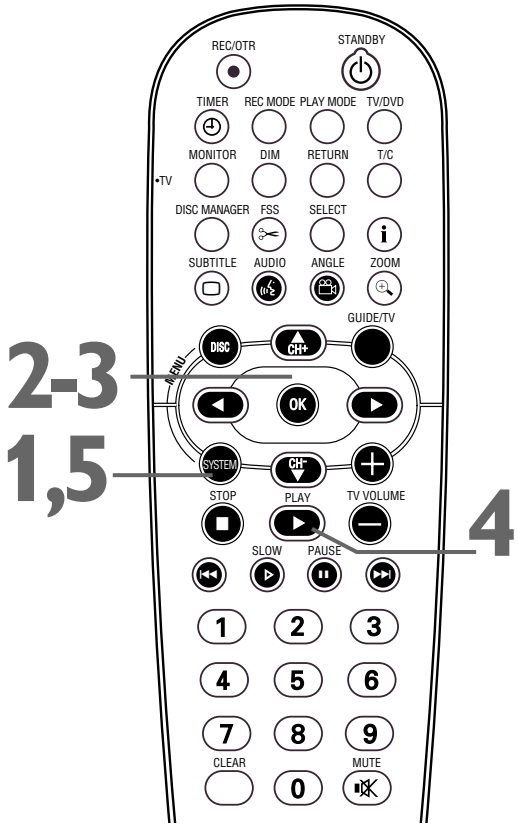
Slow Motion

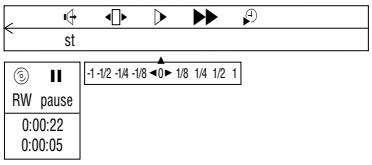
Start slow motion play simply by pressing the SLOW ▷ button during play. Press SLOW ▷ repeatedly to play the Disc at 1/2, 1/4, or 1/8 the regular speed. Press PLAY ▶ to resume regular play.
Or, to use the Menu Bar for slow motion, follow the steps below.



1 **During Disc play, press SYSTEM MENU.**

2 **Press ▶ repeatedly to select ▷ in the second Menu Bar. Press ▼.** Play will pause.

3 **Press ◀ or ▶ to select a speed: -1, -1/2, -1/4, or -1/8 (backward), or 1/8, 1/4, 1/2 or 1 (forward).** The Disc will play at the speed you selected, for example, one-quarter as fast as normal (1/4). Select 1 to play the Disc at normal speed again. Select 0 or press PAUSE ❚❚ on the remote to pause the picture.

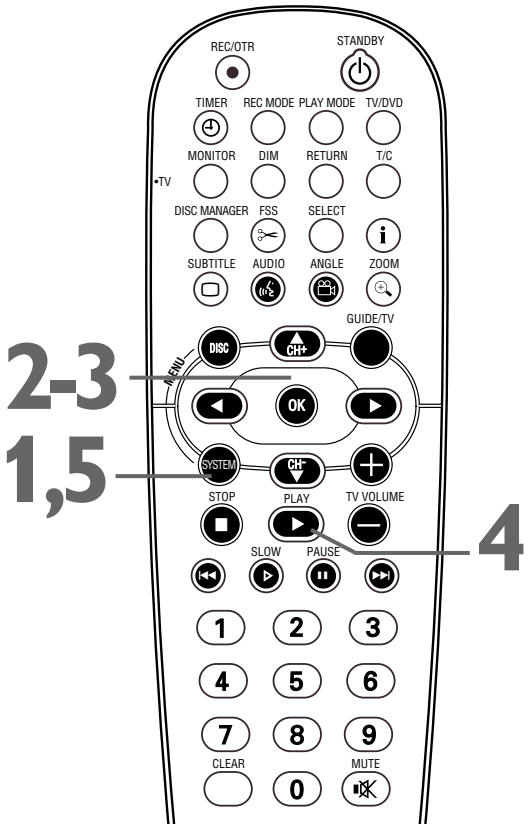


4 **Or, press PLAY ▶** to return to normal play.

5 **Press SYSTEM MENU** to remove the Menu Bar.

Searching

To search a Disc simply, press and hold Previous |◀◀ or Next ▶▶| for two seconds during play. Press repeatedly to change the search speed to 4, 8, or 32 times the normal speed, depending on the Disc type. Press PLAY ▶ to return to normal play.
To use the Menu Bar for searching instead, follow the steps below. You cannot use the Menu Bar to search an Audio CD.



1 **During Disc play, press SYSTEM MENU.**

2 **Press ▶ repeatedly to select ▶▶ in the second Menu Bar. Then, press ▼.**

3 **Press ◀ or ▶ to select a search speed: -32, -8, or -4 (backward), or 1, 4, 8, or 32 (forward).** The search will occur at 4, 8, or 32 times the regular playing speed. Select 1 to play the Disc at normal speed again.

4 **Or, press PLAY ▶ to return to normal play.**

5 **Press SYSTEM MENU** to remove the Menu Bar.

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52 Time Search, Scan

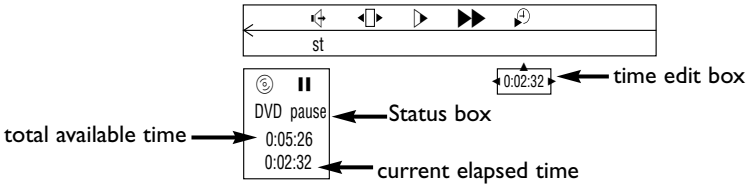
Time Search

Time Search lets you choose a specific elapsed playing time at which you want to begin play. This feature may not be available on all Discs.

1 **Press SYSTEM MENU during Disc play.**

2 **Press ▶ repeatedly to select ⏲ in the second Menu Bar.**

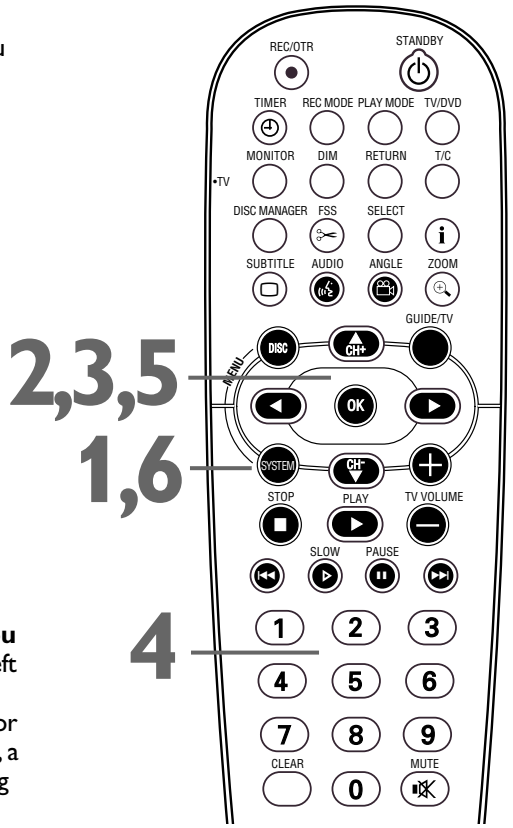
3 **Press ▼CH-.** Play will pause. A time edit box will show the elapsed playing time of the current Chapter or Disc.



4 **Press the Number buttons to enter the time at which you want play to begin.** Enter the hour, minutes, and seconds from left to right in the box.
The time must be within the possible time of the current Chapter or Disc. If not, play will not begin after you press OK at step 5. Instead, a space in the time edit box will blink. Or, play may begin at the wrong time. Refer to the Status box to see the time available, then enter a correct time.

5 **Press OK.** After a few seconds, play will resume at the point you selected.

6 **Press SYSTEM MENU to remove the Menu Bar.**

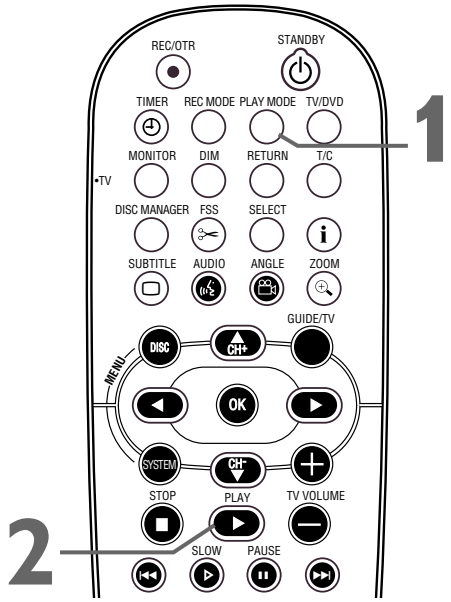


Scan

Scanning plays the first 10 seconds of each Chapter/Track on the Disc.

1 **Press PLAY MODE repeatedly during play until "scan" appears in the top left corner of the TV screen.** Starting with the current Chapter/Track, the first 10 seconds of each Chapter/Track will play. This will continue until the end of the Disc is reached or you resume regular play.

2 **To stop scanning and continue regular play, press PLAY ▶.**



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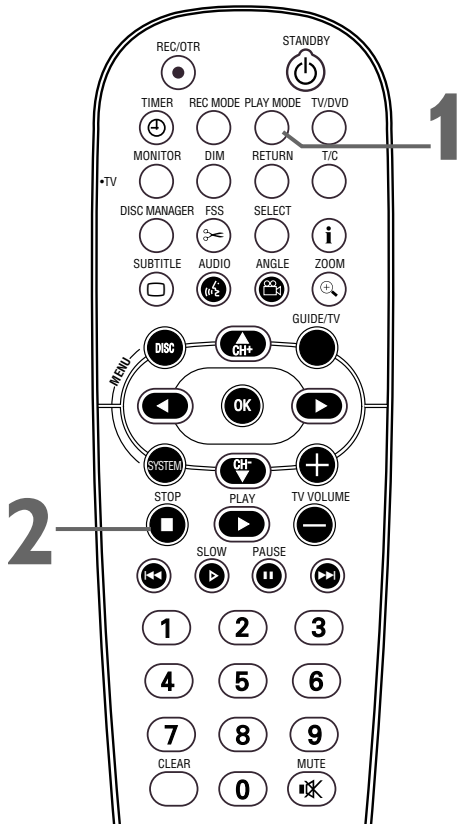
Repeat

You may play a Chapter, Track, Title or entire Disc repeatedly. All Discs do not allow all the repeat options. You cannot play an entire DVD+R or DVD+RW repeatedly. Check your Disc for details.

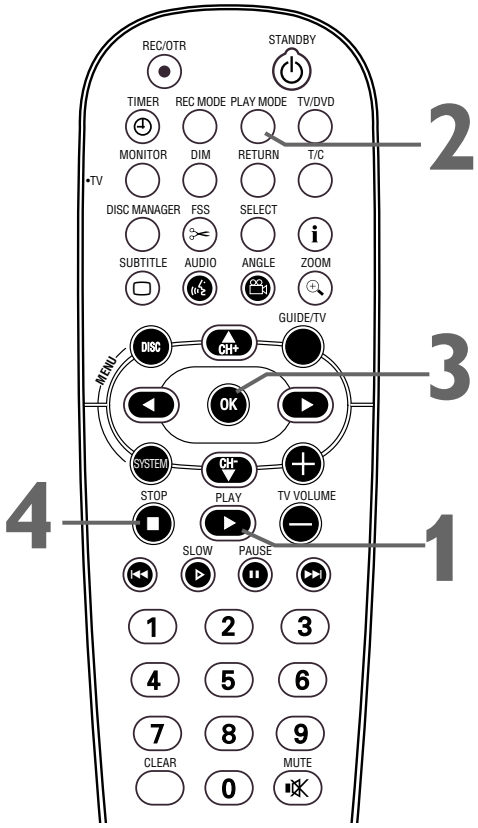


1 **During Disc play, press PLAY MODE repeatedly to choose a Repeat option.** Depending on the type of Disc, you may choose to play the Chapter, Track, Title, or Disc repeatedly.
During DVD, Video CD, DVD+R, or DVD+RW play, the repeat symbols will appear briefly on the TV screen. *See page 29.*

2 **To cancel repeat play, press STOP ■.**

Repeat A-B

You also may set the Recorder to play only a specific portion of a Title, Chapter, or Track repeatedly. Follow these steps.



1 **Press PLAY ► to start Disc play.**

2 **When the Disc reaches the point at which you want repeated play to begin, press PLAY MODE until "repeat-A" or the following symbol appears on the TV screen.**

3 **When the Disc reaches the point at which you want to end the segment, press OK.** "Repeat A-B" or the symbol below will appear on the TV screen briefly. The segment will begin playing repeatedly.

4 **To cancel Repeat A-B play, press STOP ■.**

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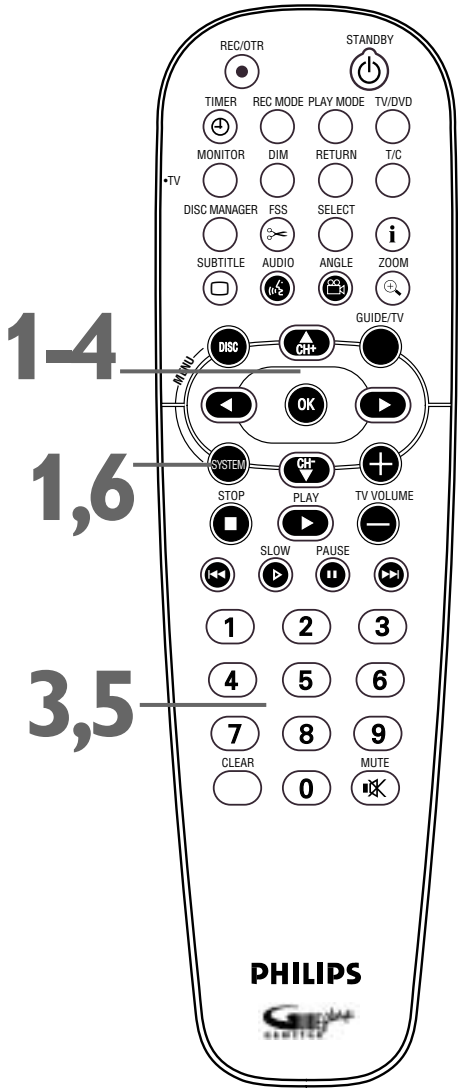
54 Access Control

Access Control limits viewing of Discs that exceed the limits you set. This feature will not limit viewing if the Disc manufacturer did not code the Disc. Philips cannot guarantee the availability of Access Control with all Discs, and therefore denies any liability associated with unintended watching of Discs. Make sure your Discs play according to your Access Control settings before you allow children access to the DVD Recorder.
You will need a four-digit code to use the Access Control features. Set a code by following these steps.

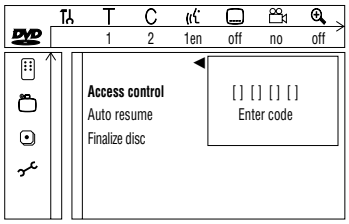


Change Code

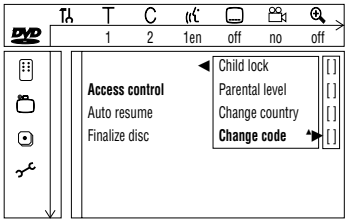
1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press CH-▼ repeatedly to select on the second screen, then press ►.** Access control will be selected.

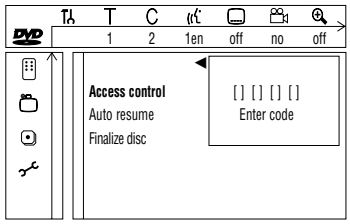
3 **Press ► again, then press the Number buttons to enter your old four-digit code.** When doing this the first time, enter any four numbers you prefer. You will have to enter the same code, exactly, twice. This will set your code for the first time.



4 **Press CH-▼ repeatedly to select Change code, then press ►.**



5 **Press four Number buttons to enter the new four-digit code. Then, enter it again - exactly - to confirm it.** The Access control menu will reappear.



6 **Press SYSTEM MENU to remove the menu.**

Helpful Hints

- *The code may not go into effect until you activate Child Lock. (You may have to keep confirming the code.) See page 55 to activate Child Lock.*
- *Finalize disc will appear in this menu only when a non-finalized DVD+R is in the Recorder. See page 40.*

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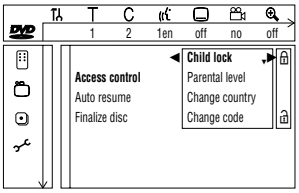
Child Lock

1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press CH-▼ repeatedly to select in the second screen, then press ►.** Access control will be highlighted.

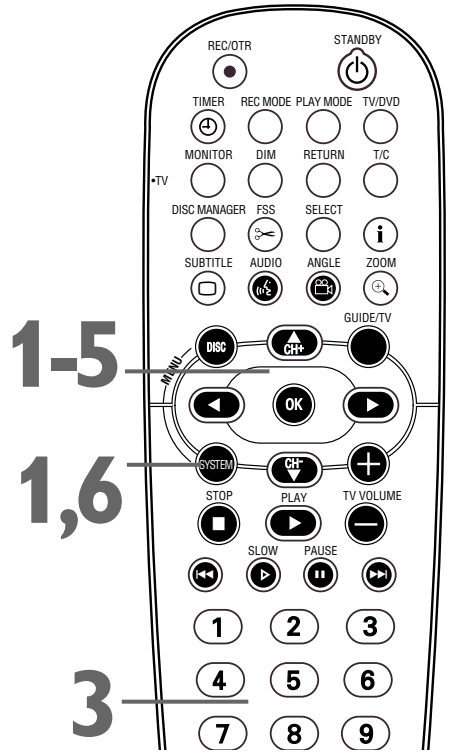
3 **Press ► again, then press the Number buttons to enter your four-digit code.** *See page 54.*

4 Child lock will be highlighted. **Press ►.**



5 **Press CH+▲ or CH-▼ to select Locked or Unlocked , then press OK.** If you chose Locked, unauthorized Discs will not play unless you enter your four-digit code.

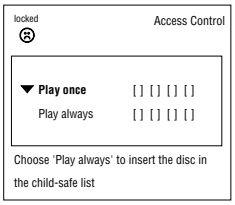
6 **Press SYSTEM MENU to remove the menus.**



Locking or Unlocking Specific Discs

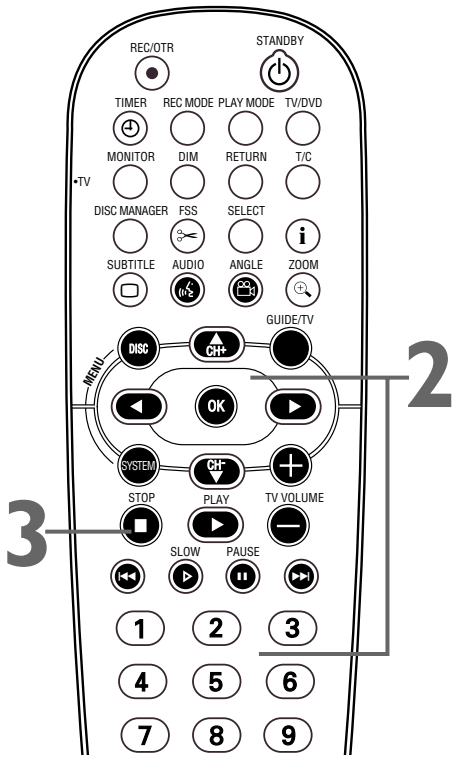
After you set Child Lock to Locked, you can unlock a Disc by choosing Play once or Play always.

1 **Insert a Disc.** The Access Control message will appear on the TV screen. Child Lock must be Locked. *See above.*



2 **Press ▲CH+ or ▼CH- to select Play once or Play always. Press the Number buttons to enter your four-digit code.** If you select Play Once, the Disc will play one time. If you open the Disc tray or turn off the Recorder's power, the Access Control screen will reappear when you try to play the Disc again.
If you select Play Always, you can play the Disc later without entering your code, even if you turn off the Recorder or open the disc tray.

3 **If you later decide to lock the Disc so it will not play always:** When you insert the Disc, safe ☺ appears on the TV screen. **Press STOP ■ while safe ☺ is on the TV screen.** Locked ☹ will appear. The next time you turn on the Recorder or try to play the Disc, the Access Control screen will appear.



Helpful Hints

- *If you do not know your code when Access Control appears, press STOP ■. Select Access Control in the Recorder's menu. When prompted for your code, press STOP ■ four times. Press SYSTEM MENU to remove the menu. This restores the default Access Control settings.*
- *Two-sided DVDs may have a different ID for each side. Disc sets may have a different ID for each Disc. Unlock each side or Disc.*

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56 Access Control (cont'd)

Parental Level

DVDs may have scenes that conform to a Parental Level or movie rating. The Parental Level may apply to the complete Disc or to certain scenes. Follow the steps below to set the Parental Level at which you want Discs to play.

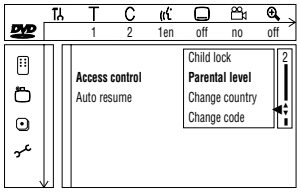
1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press ▼CH- repeatedly to select in the second screen, then press ►.** Access control will be highlighted.

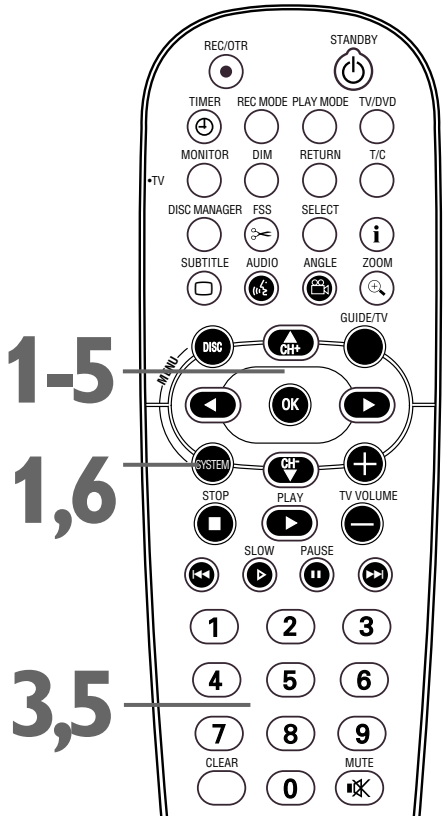
3 **Press ► again, then press the Number buttons to enter your four-digit code.**

4 **Press ▼CH- to select Parental level, then press ►.**

5 **Press ▲CH+ or ▼CH- or the Number buttons to select a rating, then press OK.**
Select "0" (– –) to deactivate Parental level completely. Or, choose a rating between 1-8; scenes with the same rating or lower will play. Higher rated scenes will not play unless an alternative scene (with a lower rating) is available. If no alternative is found, play will stop. Enter the four-digit code to play the Disc.



6 **Press SYSTEM MENU to remove the menus.**



Change Country

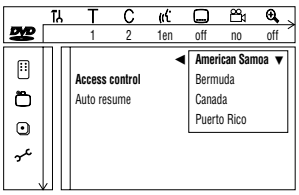
Parental Level codings apply only for the country specified on the Disc. The Disc manufacturer sets these codings. For some Discs, you may need to choose the Country for which the Disc is coded in order for the Disc to play at the Parental Level you selected above.

1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press ▼CH- repeatedly to select in the second menu, then press ►.** Access control will be highlighted.

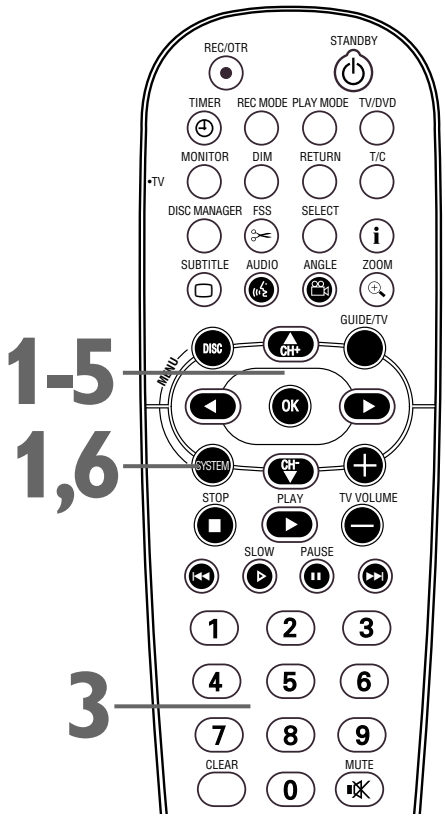
3 **Press ► again, then press the Number buttons to enter your four-digit code.** Child lock will be highlighted.

4 **Press ▼CH-repeatedly to select Change country. Press ►.**



5 **Press ▲CH+ or ▼CH-to select the country for which the Disc is coded, then press OK.**

6 **Press SYSTEM MENU to remove the menus.**



Helpful Hint

- *Rating numbers compare to U.S. movie ratings as follows: 7-NC-17; 6-R; 4-PG-13; 3-PG; and 1-G.*

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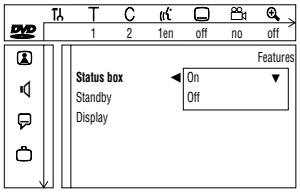
1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

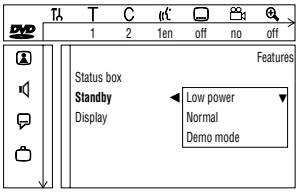
2 **Press ▼CH- repeatedly to select , then press ►.**

3 **Press ▲CH+ or ▼CH- to select Status box, Standby, or Display. Press ► and follow step 4 according to your choice.**

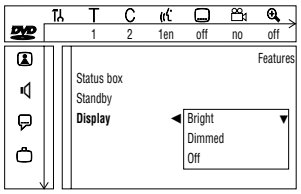
4 ● **If you selected Status box, press ▲CH+ or ▼CH- to choose On or Off, then press OK.** The status box briefly displays the Disc type and status of the Recorder. Select On if you want to see the Status boxes. Choose Off if you do not want to see the Status boxes. *See page 29.*



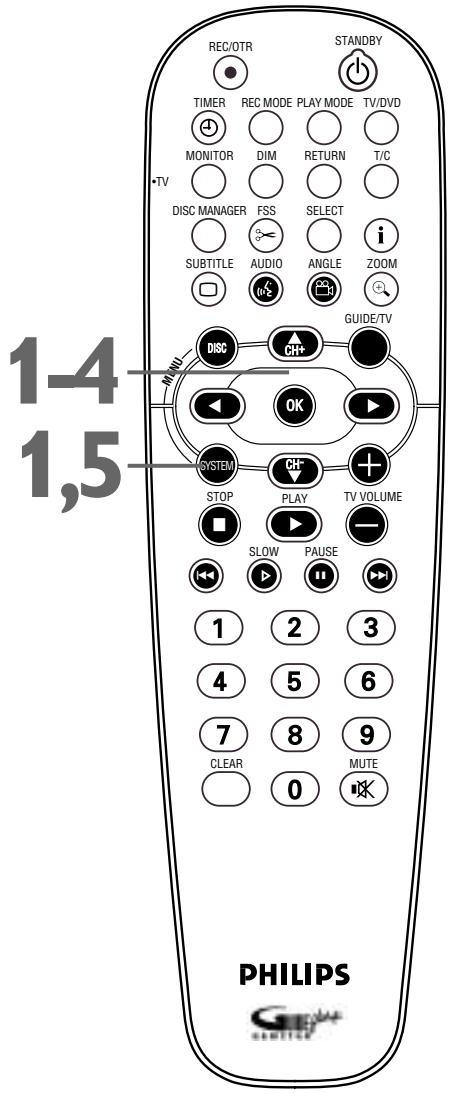
● **If you selected Standby, press ▲CH+ or ▼CH- to choose Low power, Normal, or Demo mode, then press OK.**
Choose Low power if you do not want the clock to appear on the display panel when the power is off. The display panel will be dark when the power is off.
Choose Normal if you want the time to appear on the display panel when the power is off.
Choose Demo mode if you want the Recorder's features to scroll across the display panel when the power is off. The recording and GUIDE lights will appear sporadically, even though recording is not necessarily occurring.



● **If you selected Display, press ▲CH+ or ▼CH- to choose Bright, Dimmed, or Off, then press OK.** This adjusts the brightness of the display panel text on the front of the Recorder. Choose the brightness you prefer, or choose Off to see no information on the display panel any time the Recorder is On.



5 **Press SYSTEM MENU to remove the menus.**



Helpful Hint

- *You also can adjust the brightness of the display panel by repeatedly pressing the DIM button on the remote.*

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1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press ▼CH- to select , then press ►.**

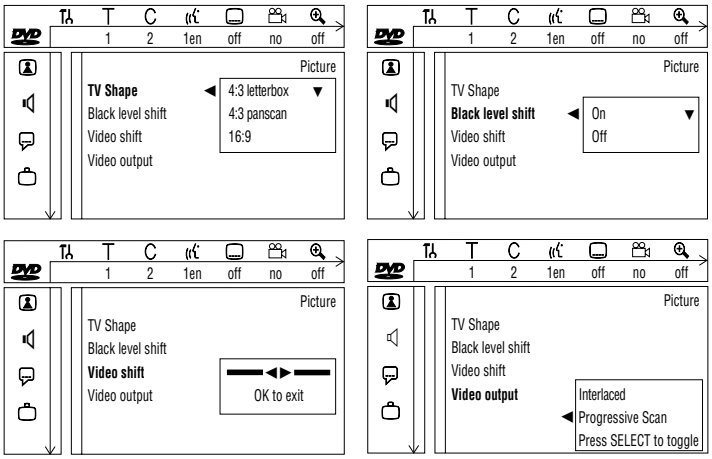
3 **Press ▲CH+ or ▼CH- to select TV Shape, Black level shift, Video shift, or Video output. Then, press ► and follow step 4 according to your choice.**

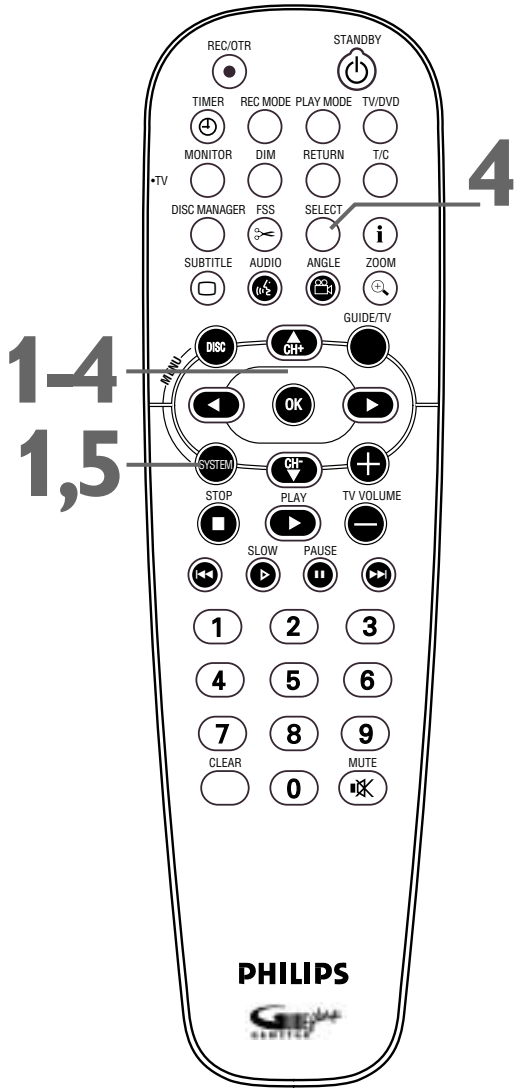
4 ● **If you selected TV Shape, press ▲CH+ or ▼CH- to select 4:3 letterbox, 4:3 panscan, or 16:9, then press OK.**
Select 4:3 letterbox if you want to see the entire widened picture with black bars at the top and bottom of the screen. This looks like the picture you see when watching movies in a theater. This setting is possible only if the DVD was recorded in the Letterbox or Widescreen format.
Select 4:3 panscan if you want both sides of the picture to be trimmed, or formatted to fit your TV screen. This setting is possible only if the DVD was recorded in Normal or Regular format.
Select 16:9 if you connected the Recorder to a widescreen TV.

● **If you selected Black level shift, press ▲CH+ or ▼CH- to select On or Off, then press OK.** Set Black level shift to On during play of NTSC Discs. This will improve the color contrast and brighten the picture. Black level shift has no effect on PAL Disc play.

● **If you selected Video shift, press ◄ or ► to center the picture on your TV screen - or "shift" the video. When you are satisfied with the position of the picture, press OK.**

● **If you selected Video output, press SELECT repeatedly to choose Interlaced or Progressive Scan, then press OK.** Select Progressive Scan only if you connected the Recorder to a TV that has Progressive Scan. *See page 12.* Otherwise, choose Interlaced.





5 **Press SYSTEM MENU to remove the menus.**

TV Shape Examples

16:9 **Letterbox** **4:3 panscan**

Helpful Hints

- *The format you select must be on the Disc. If not, the settings for TV Shape will not affect the picture during play.*
- *Some widescreen TVs may show only part of the Recorder's menu. Adjust the screen mode on your TV. See your TV owner's manual for details.*

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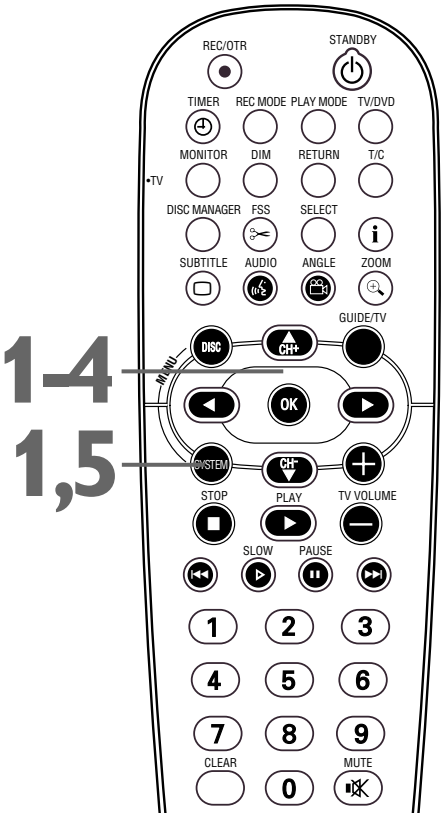
Analog Output

If you connected the Recorder's red and white AUDIO OUT jacks to a Stereo or TV as shown on pages 12-15, adjust Analog Output. See if your Stereo or TV is compatible with Dolby Surround. Then follow these steps to make Analog Output match your Stereo or TV capabilities. You do not need to do this if you used the COAX OUT or OPTICAL OUT jacks.



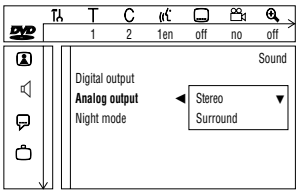
1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press ▼CH- repeatedly to select , then press ►.**

3 **Press ▼CH- to select Analog output, then press ►.**

4 **Press ▲CH+ or ▼CH- to select Stereo or Surround. Press OK.**

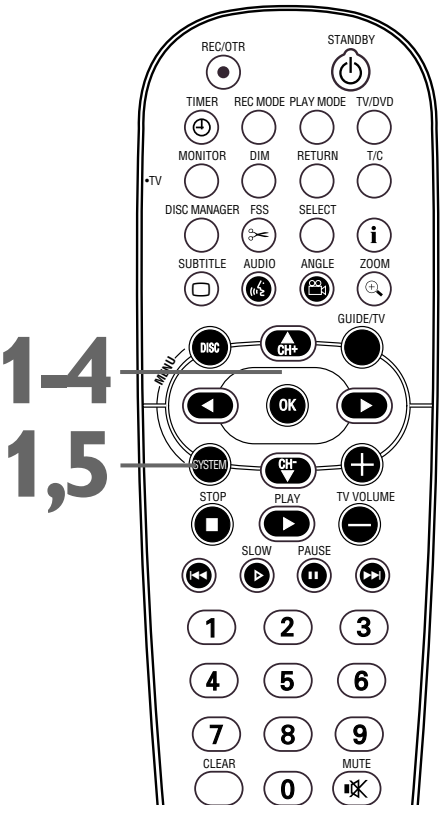
- Select Stereo to hear stereo sound. This will work with any equipment that has right and left audio jacks (usually red and white).
- Select Surround if your audio equipment is compatible with Dolby Surround. If it is, a Dolby Pro Logic logo may show on the system.



5 **Press SYSTEM MENU to remove the menus.**

Digital Output

Adjust Digital Output if you used the Recorder's COAX OUT or OPTICAL OUT jacks to connect to a TV or Stereo. *See page 16.* If you used the red/white AUDIO OUT jacks, adjust Analog output instead. *See above.*



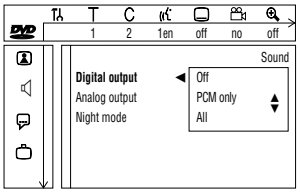
1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press ▼CH- repeatedly to select , then press ►.**

3 Digital output will be selected. **Press ►.**

4 **Press ▲CH+ or ▼CH- to select Off, PCM only, or All. Press OK.**

- Select All if you used the COAX OUT jack to connect the Recorder to a Stereo that has a multi-channel decoder. *See page 16.*
- Select Off if you did not use either the COAX OUT or OPTICAL OUT jack. See above to adjust Analog Output instead.
- Select PCM only if you used the COAX OUT or OPTICAL OUT jack of the Recorder for connections, but the audio equipment does not include a built-in digital multi-channel decoder.



5 **Press SYSTEM MENU to remove the menus.**

Helpful Hint

- *You also can set Analog Output in the Menu Bar. See page 28.*

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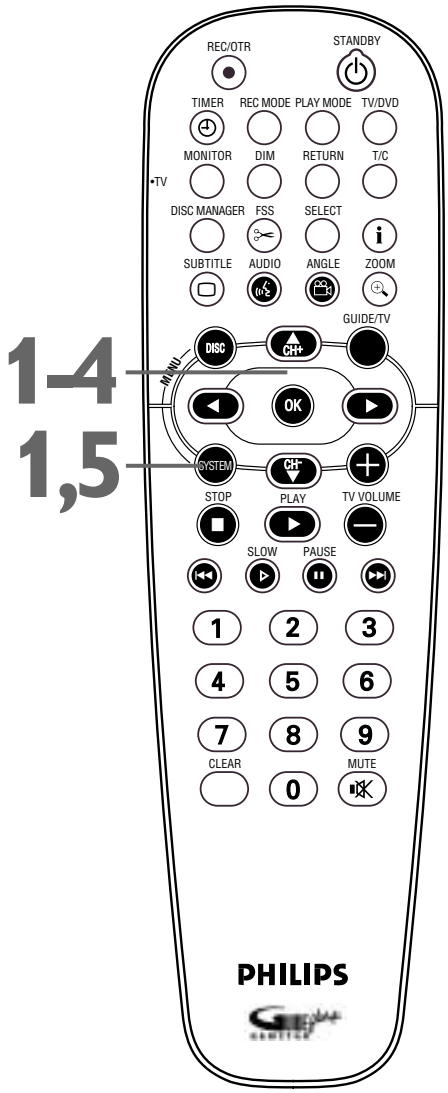
60 Language Settings

In the Language menu, select a different language for the Audio soundtrack or Subtitles of a DVD. Or, change the language of the DVD Recorder's System Menu. You also can determine whether you receive TV channels in Stereo or in a Second Audio Program language by following these steps.



1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press CH-▼ repeatedly to select , then press ►.**

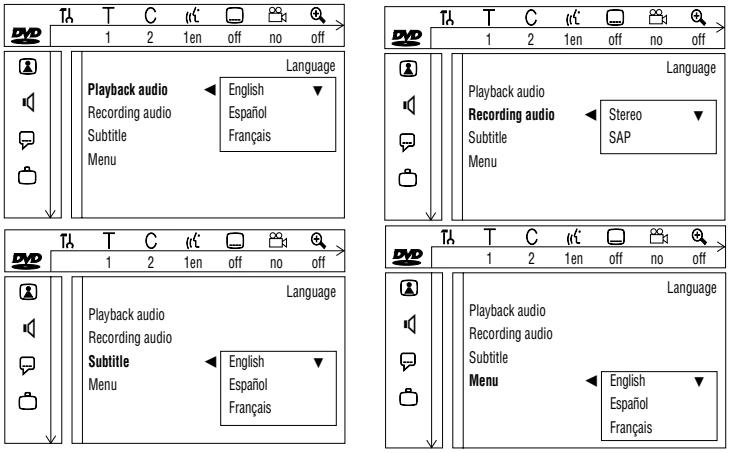
3 **Press CH+▲ or CH-▼ to select Playback audio, Recording audio, Subtitle, or Menu, then press ► and proceed as detailed in step 4.**

4 ● **If you selected Playback audio, press CH+▲ or CH-▼ to select the language in which you want to play the Disc, then press OK.** The changes will be effective only if the language is available on the Disc. Some DVDs allow you to change languages in the Disc Menu only.

● **If you selected Recording audio, press CH+▲ or CH-▼ to select Stereo or SAP, then press OK.**
Some TV programs broadcast in stereo or in a second audio program (SAP). Usually, second audio means the program has a second language available. For example, the program might be available in English and Spanish, with Spanish being the SAP (second audio program) option. Your selection will only be active if the program is available in stereo or second audio. SAP will appear on the display panel when this feature is active and available.
When you play the recording, you can play only in the audio you recorded. For example, if you recorded in SAP, you can play the recording only in SAP.

● **If you selected Subtitle, press CH+▲ or CH-▼ to choose the language in which you want the Subtitles, then press OK.** The subtitles will be in that language if available on the Disc.

● **If you selected Menu, press CH+▲ or CH-▼ to choose English, Espanol (Spanish), or Français (French), then press OK.** This adjusts the language of the Recorder's System Menu, which is available only in these three languages.



5 **Press SYSTEM MENU to remove the menus.**

Helpful Hint

- *If Recording audio is set to SAP and you record a TV program that is available only in Stereo, the Recorder will record the program in Stereo.*

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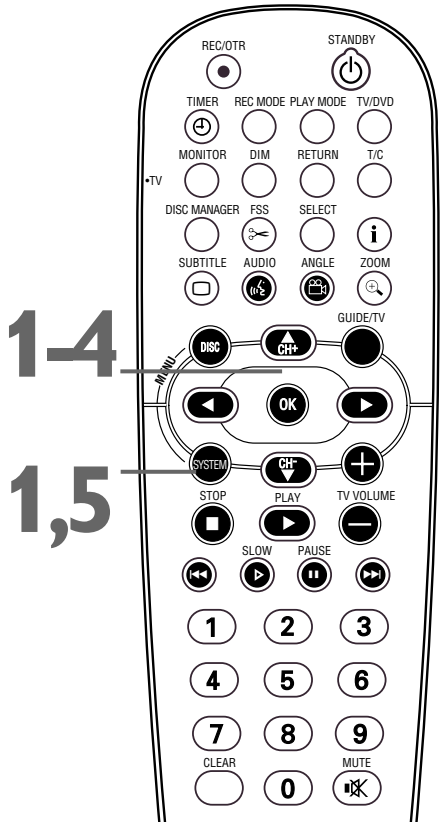
Night Mode

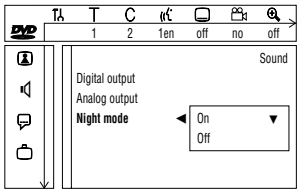
Turn on Night Mode to improve the sound during low volume play.



1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press ▼CH- repeatedly to select , then press ►.**

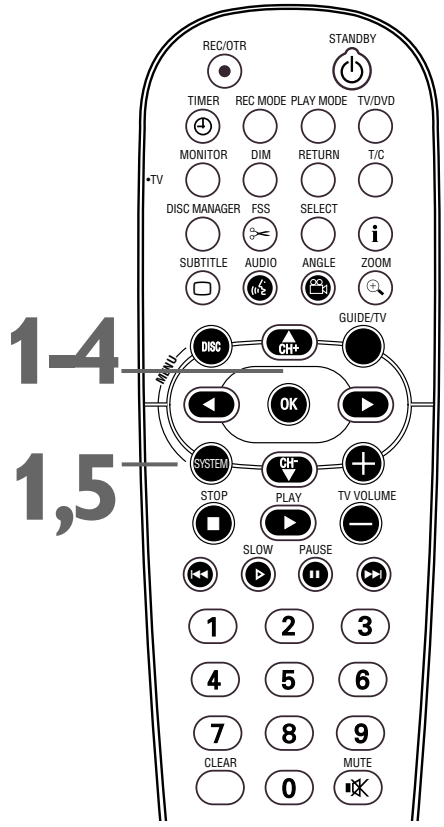
3 **Press ▼CH- repeatedly to select Night mode, then press ►.**



4 **Press ▲CH+ or ▼CH- to select On or Off, then press OK.**

5 **Press SYSTEM MENU to remove the menus.**

Remote Control Used

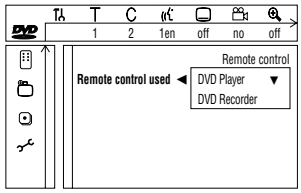


1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press ▼CH- repeatedly to select in the second menu screen, then press ►.**

3 Remote control used will be selected. **Press ►.**

4 **Press ▲CH+ or ▼CH- to select DVD Player or DVD Recorder, then press OK.**
The factory setting is DVD Recorder. This means you will operate the Recorder with the remote control supplied with the Recorder (as shown at right and throughout this book).
However, if you have a Philips DVD Player and want to use that remote to also control the Recorder, select DVD Player.
You may not be able to access all the Recorder's features unless you use the Recorder's remote control.



5 **Press SYSTEM MENU to remove the menus.**

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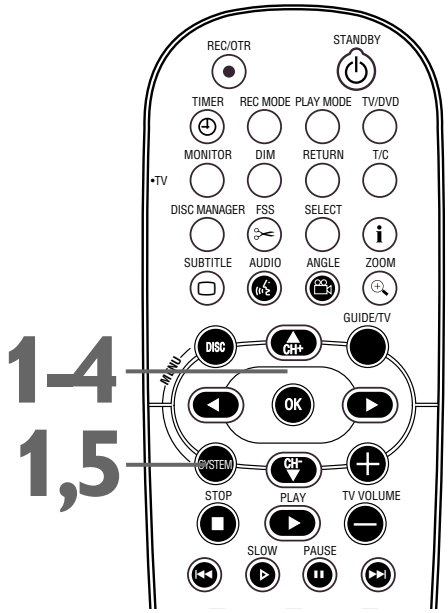
62 Auto Resume, Playback Control

Auto Resume

Auto resume affects the last 20 prerecorded DVDs and Video CDs you played. When Auto resume is On, play resumes where you last stopped the Disc. If Auto resume is Off, play starts at the beginning of the Disc.

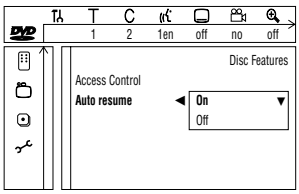


1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press CH-▼ repeatedly to select** **in the second screen, then press ►.**

3 **Press CH-▼ to select Auto resume, then press ►.**

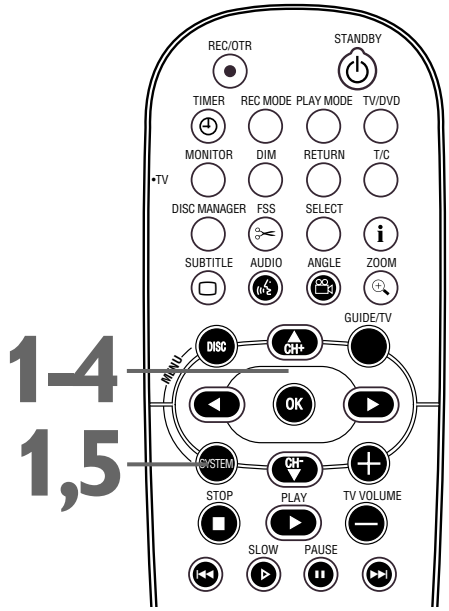
4 **Press CH+▲ or CH-▼ to select On or Off, then press OK.**



5 **Press SYSTEM MENU to remove the menus.**

Playback Control

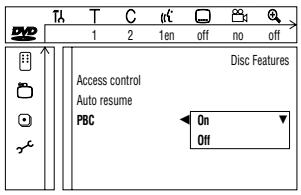
Some Video CDs have interactive menus that customize play. If the Video CD has Playback Control (PBC), follow these steps to turn it on or off.



1 **Press SYSTEM MENU. Press ◄ to select** in the top left corner of the Menu Bar at the top of the TV screen.

2 **Press CH-▼ repeatedly to select** **in the second screen, then press ►.**

3 **Press CH-▼ repeatedly to select PBC, then press ►.** ***PBC appears in the menu only when a Video CD with Playback Control is in the Recorder.***



4 **Press CH+▲ or CH-▼ to select On or Off, then press OK.**

5 **Press SYSTEM MENU to remove the menus.**

Helpful Hints

- *If resume appears when you start play, press PLAY ► again. Play will resume from the last played point, even if Auto resume is Off. See page 22.*
- *The display panel will be blank during play of a Video CD with PBC On.*

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Analog: Sound that has not been turned into numbers. Analog sound varies, while digital sound has specific numerical values. Analog sound is available when you use the red and white audio jacks on your equipment. These jacks send audio through two channels, the left and right.

AUDIO jacks: Jacks on the Recorder that send or receive sound to or from other equipment (VCR, Camcorder, etc.).

A/V: Audio/Video.

COAX (coaxial) OUT jack: Sends digital audio to a Stereo, allowing you to adjust the volume at the Stereo. The Stereo must have a Coaxial In jack. This connection provides the 5.1 channel surround sound as heard in movie theaters.

Color system: There are various systems for transmitting television signals, for example PAL, SECAM, and NTSC. NTSC is the most common color system in the United States of America.

COMPONENT VIDEO Jacks: The jacks on the Recorder that send or receive a picture to or from other equipment. The video is separated into three components (red, green, and blue) to deliver a high quality picture.

Digital: Sound that has been converted into numerical values. Digital sound is available when you use the Recorder's COAX (coaxial) OUT or OPTICAL OUT jacks.

Dolby Digital: A surround sound system that provides 5.1 channel sound as used in movie theaters.

DVD+R: DVD+Recordable. These Discs can be recorded and finalized only once.

DVD+RW: DVD+ReWritable. These Discs can be recorded on repeatedly.

i.LINK: Also known as 'FireWire 'and 'IEEE 1394.' A cable for transfer of high bandwidth digital signals as used by Digital Video camcorders or some computers.

Index Picture Screen: A screen that gives an overview of a DVD+RW or DVD+R. An Index Picture represents each recording.

Letterbox: A TV aspect ratio setting (4:3). Displays the stretched video in full-width, with black bars at the top and bottom of the TV screen. This format is similar to seeing a movie in a theater. The DVD case may advertise it as widescreen format.

MPEG: Motion Picture Experts Group. A collection of compression systems for digital audio and video.

OPTICAL OUT Jack: Converts electrical signals into optical signals before sending the audio to the Stereo. Optical audio is not prone to external electrical influences and has less noise, which reduces adverse effects on external equipment. Keep the protective cap on the jack when the jack is not in use.

OTR: One-Touch Recording. Start a timed recording by pushing just one button; select the switch-off time in intervals of 30 minutes.

Pan & Scan: A TV aspect ratio setting (4:3). Displays the video with full-height picture, with one or both sides of the picture trimmed to fit on your TV screen. Some movie companies refer to this as "reformatting the picture to fit your TV screen."

PBC: Playback Control. A Video CD/Super VCD feature that enables interactive use.

PCM: Pulse Code Modulation. A digital audio encoding system.

RGB: Red-Green-Blue. A top-quality video connection where red, green, and blue components of a video signal are carried through separate wires. This also is referred to as the component video connection.

S-Video: Produces a clear picture by sending separate signals for the luminance and the color. You can use S-Video only if your TV has an S-Video In jack.

TruSurround: A system that simulates multi-channel sound via a two-channel connection (audio left and right). This allows you to enjoy multi-channel sound if your Stereo does not have a multi-channel decoder.

VCR Plus+ System: Allows you to set a timer recording by entering a PlusCode number found in participating TV listings.

VIDEO (CVBS) Jacks: Jacks that send or receive video to or from other equipment.

Widescreen: A TV aspect ratio setting (16:9). Displays the video appropriately when you connect the Recorder to a widescreen TV.

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64 Helpful Hints

If you are having problems with your product, check this list of problems and possible solutions before requesting service. You may be able to solve the problem yourself.

No power
- Press STANDBY-ON ⏻ on the front of the Recorder to turn it on.
- Connect the supplied power cord securely to the MAINS ~ (AC power) jack on the rear of the Recorder. Connect the power cord firmly to an AC power outlet. Use only the supplied power cord.
- Make sure the AC outlet has power by trying another appliance in the same outlet.

No picture
- Make sure the TV power is on.
- Check the video cables. Make sure the cables are fastened securely to the Recorder and the TV.
- Set your TV to the correct Video In channel. These channels are usually near channel zero. Or, you may have a button on the TV remote that selects an Auxiliary or A/V IN channel. See your TV manual for details. Or, go to your lowest TV channel and change channels down until you see the Recorder's blue background picture on the TV screen.
- You only need one video connection between the DVD Recorder and the TV. *See page 9.*

The picture is distorted; the picture is black and white during play.
- TVs have a color system standard, usually NTSC in the United States. If the Disc's color system is different than your TV's color system, the picture may be distorted or colorless.
- The Recorder can not record in color if the TV channel or source is not providing color. In some situations, programs that are broadcast in black and white can not be recorded.
- Check the Disc for fingerprints. Clean the Disc with a soft cloth, wiping from the center to the edge in a straight line.
- Sometimes a small amount of picture distortion may appear. This is not a malfunction.

The sound is distorted during Disc play through a Stereo.
- Do not connect any cables from the DVD Recorder to the Stereo's "PHONO IN" jack.
- Do not connect a digital jack on the Recorder (COAX OUT or OPTICAL OUT) to an analog jack on the Stereo. (Analog audio jacks are usually labeled as such and are usually red and white.)

No sound
- Check the audio connections. *See pages 9-17.* Remember, you only need one audio connection. See page nine to see what connection best suits your situation.
- Make sure cables are connected firmly to all equipment.
- Select another channel, sound source, or Auxiliary station at your Stereo or TV. See your Stereo or TV manual for details. Or, just continue selecting the different sound sources or modes on the Stereo or TV until you hear sound from the Disc that is in the Recorder. *See pages 9-17.*
- Check your Analog output or Digital output settings. Make sure you choose the right setting, based on what equipment you connected to the DVD Recorder. *See page 59.* Make sure these settings match the capabilities of your Stereo or TV.
- Change the Audio setting of the DVD in the DVD Disc Menu.

A Disc recorded on this DVD Recorder will not play on a DVD Player.
- In some cases, you can adapt the Disc at the DVD Recorder, then try it again in the Player. This procedure does not solve the playability problem with all brands of Players. Furthermore, it may make the Disc incompatible with Players with which the Disc was compatible before you modified the Disc.
  To modify a Disc, place the Disc in the Recorder's disc tray. Do not close the tray. Press and hold the Number 2 button on the remote until the tray closes. After the Recorder reads the Disc, remove it and try it on the other Player.
  If the Disc still will not play on the Player, repeat this procedure, but press and hold the Number 3 button instead.
  To return the Disc to its original version, repeat this process using the Number 1 button.
- To play a DVD+R on another DVD Player, finalize the Disc first. *See page 40.*
- Editing changes may not be accessible when you play the Disc on other Players. Make the edits compatible. *See page 38.*

An Audio CD will not play on the DVD Recorder.
- Some Audio CDs available on the market are copy protected. This Recorder may not play such copy-protected discs.

The Recorder will not select some features.
- The feature may not be available on the Disc. If not, an "X" will appear on the TV screen. Check the Disc case to see if the Disc has the feature. If the Disc does not have the feature, the Recorder cannot create the feature. This is not a malfunction of the Recorder. Some features are only available during play, while others can be accessed only when play is stopped. Stop or start play, then try the feature again.

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Disc will not play.
- Make sure the Disc label is facing up. If you are playing a two-sided Disc, make sure the label of the side you want to play is facing up. *See page 21.*
- Check Access Control. *See pages 54-56.*
- Check the Region Code of the DVD. The DVD must be coded for All regions or Region 1 in order to play on this Recorder. *See page seven.*
- See if the Disc is defective by trying another Disc. Make sure the Disc is not scratched or warped. Carefully clean the Disc. *See page eight.*

The DVD Recorder does not respond to the remote control.
- Aim the remote control directly at the IR sensor on the front of the Recorder. *See page 26.* Point the remote control toward the Recorder, not your TV.
- Remove any obstacles between the Recorder and the remote control.
- Inspect or replace the batteries in the remote control. *See page eight.*
- The remote control may have been set to operate another Recorder accidentally. Press and hold the SELECT and Number 1 buttons on the remote control at the same time to have the remote control operate the Philips DVD Recorder.
- Make sure you selected DVD Recorder as the Remote control used. *See page 61.*

Recordings are not occurring as scheduled. New recordings cannot be made.
- See if the Disc has the maximum number of titles. Erase some recordings (DVD+RW only). *See page 35.*
- You can record only if the Disc is Unprotected. You cannot use a write-protected Disc. *See page 47.*
- You cannot duplicate copyrighted DVDs, videotapes, or TV broadcasts using the Recorder. "COPY PROTECT" may appear on the display panel if you try to dub or record copyrighted material.
- The signal from your Antenna/Cable TV system must be strong enough to provide good channel reception. If the signal is weak, if there is no signal, or if a channel has gone off the air, a recording will not occur.
- Check the Disc. If the Disc is bad (scratched, warped, etc.) or if the Recorder cannot read the Disc, you cannot record. "NO DISC" may appear on the display.
- A timer recording may not occur if the power fails. To see what recordings are set, use SCHEDULE. *See page 47.*

The Index Picture Screen does not appear, but the Disc still plays.
- Clean the Disc. *See page eight.*

Another DVD player shows the Index Picture Screen but does not react to PLAY ▶.
- Press STOP ■ to exit the Index Picture Screen, then press PLAY ▶.

You need to access system information for service reasons.
- Press SYSTEM MENU. Press ◀ to select in the top left corner of the first Menu Bar. Then, press CH-▼ repeatedly to select at the top of the second menu page, then press ▶. Press ▼ repeatedly until the system information appears.

The DVD Recorder does not work.
- The Recorder will not operate until you complete the Initial Setup. *See pages 18-20.*
- In all other cases, disconnect the power cord from the MAINS ~ jack on the rear of the Recorder for a few minutes. Reconnect the power cord and try to operate the Recorder again as usual.
  If the Recorder still will not operate, disconnect the power cord from the MAINS ~ jack on the rear of the Recorder again. Then, while pressing and holding the STANDBY-ON ⏻ button on the front of the Recorder, reconnect the power cord. This resets the Recorder to the factory mode, or to its original settings as they were when you first received the Recorder. You will have to complete the Initial Setup again and reset any items you have adjusted during your use of the Recorder. You also will have to wait for the GUIDE Plus+® System data to refresh. This will take about 24 hours.

Messages or strange codes appear on the Recorder's display panel.
- Remove and reinsert the Disc.
- Clean the Disc.
- Disconnect the power cord from the power outlet, then reconnect the cord and try play as usual.
- During Initial Setup, "IS TV ON ..." will appear on the Recorder's display panel. This appears in addition to the Initial Setup information that shows on your TV screen. *See pages 18-20.* "IS TV ON ..." indicates you should turn on your TV and set it to the correct Video In channel or channel 3 or 4. Even though your TV may be on, you must set it to the correct Video In channel to see the Initial Setup messages. *See pages 9-17* to determine the Video In channel for your connection. Or, check your TV manual.

All of the Recorder's System Menu is not visible on the TV.
- Certain TVs may not show the entire System Menu. If the upper or top portion of the menu does not appear properly, this is a TV issue. It is not an improper functioning of the Recorder. See your TV manual for assistance.

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66 Diagnostic Test, Specifications

Diagnostic Test

If you are having trouble with the Recorder after checking Helpful Hints and other information in this manual, try a Diagnostic Test.

1 **Disconnect the power cord from the Recorder's MAINS ~ (AC Power) jack on the rear of the Recorder.**

2 **Press and hold the Play ► button on the front of the Recorder while you reconnect the power cord to the Recorder.** "BUSY" will appear on the display panel, along with a counter number. **Release PLAY ►.** The counter will reach zero (0) when the test is finished.

3 Momentarily, "FAIL" or "PASS" will appear on the display panel. If "FAIL" appears, your Recorder needs repair. Contact the Philips Customer Care Center for the Authorized Service Center nearest you.
If "PASS" appears, the Recorder apparently has no failure. The problem may be incorrect interpretation of the operating instructions, a wrong Disc in use, or incorrect connections. Contact the Philips Customer Care Center for further assistance in solving the problem.

4 If there is no failure, disconnect the power cord again, then reconnect it to the Recorder and an AC power outlet. The Recorder will be ready for use.

Specifications

DVD+REWRITABLE DISC FORMAT

Medium	Phase-Change ReWritable
Diameter	12 cm
Capacity (single side)	4.7 Gbyte

TV STANDARD	PAL/SECAM	NTSC
Scan Frequency	50Hz	60Hz
Number of lines	625	525
Play	Yes	Yes
Recording	Yes	Yes
Internal tuner	No	Yes

VIDEO FORMAT

Digital Compression	MPEG2 for DVD, MPEG1 for VCD

REAR CONNECTIONS

Component Video	Cinch (green/blue/red)
S-Video	Hosiden 4-pin
Video (CVBS)	Cinch (yellow)
Audio Left/Right	Cinch (white/red)
Digital Audio Out	1 coaxial,1 optical IEC958 for CDDA /LPCM IEC1937 for MPEG2, Dolby Digital
Antenna In, TV Out	Coaxial 75 ohms

FRONT CONNECTIONS

DV IN CAM 2	IEEE 1394 4-pin
S-VIDEO IN	Hosiden 4-pin
VIDEO and AUDIO IN	Cinch (yellow, white, red)

AUDIO PERFORMANCE

DA Converter	24 bit	
AD Converter	16 bit	
DVD	fs 96 kHz	4 Hz -44 kHz
	fs 48 kHz	4 Hz -22 kHz
Video CD	fs 44.1 kHz	4 Hz -20 kHz
Audio CD	fs 44.1 kHz	4 Hz -20 kHz
Signal-Noise (1kHz)	105 dB	
Dynamic Range (1kHz)	100 dB	
Crosstalk (1kHz)	110 dB	
Distortion/Noise (1kHz)	90 dB	

AUDIO FORMAT

Compressed digital	Play	Recording
• Dolby Digital (AC-3)	Multi-channel	2-channel 16 bit, fs 48 kHz
• DTS	Multi-channel	No
• MPEG1	2-channel	No
• MPEG2	Multi-channel	No
Uncompressed digital (SPDIF Sony Philips Digital Interface)		
• PCM	2-channel 16, 20, 24 bit fs 48, 96 kHz	No

VIDEO PERFORMANCE

DA Converter	10-bit
AD Converter	9-bit
Signal handling	Components
Video Out	1 Vpp into 75 Ohm
S-Video Out	Y: 1 Vpp into 75 Ohm C: 0.300 Vpp into 75 Ohm
Component Out	Y: 1 Vpp into 75 Ohm P_B: 0.7 Vpp into 75 Ohm P_R: 0.7 Vpp into 75 Ohm

POWER SUPPLY

AC power	polarized (IEC)
Power supply	110-130V/60 Hz
Power consumption	Operation 29 W; Standby < 7 W

CABINET

Dimensions	17.2" W x 3.0" H x 13.2" D
Net weight	4.0 kg

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